

**Chemical Name:** Afidopyropen  
**USEPA PC Code:** 026200  
**USEPA MRID:** 49689229  
**USEPA DP Barcode:** 435146  
**PMRA Data Code (DACO):** 9.2.4.9  
**PMRA Study No. (UKID):** 2627496  
**Data Requirement:** 850.3040; EC Regulation 1107/2009

**Test Material:** BAS 440 UV I

**Purity:** 9.9%

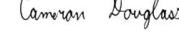
Active Ingredient: Afidopyropen  
IUPAC Name: [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-(cyclopropylcarbonyloxy)-1,2,3,4,4a,5,6,6a,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridyl)-11H,12H-benzo[f]pyrano[4,3-b]chromen-4-yl]methylcyclopropane carboxylate  
CAS Name: [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl)methylcyclopropanecarboxylate  
CAS No.: 915972-17-7  
Synonyms: INSCALIS™; BAS 440 00 I

**Primary Reviewer:** Thomas Steeger, Ph.D.  
Senior Science Advisor, USEPA/OCSPP/OPP/EFED/ERBIV

**Signature:**   
**Date:** 15 February 2018

Digitally signed by  
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Date: 2018.02.20 12:21:27  
09:07

**Secondary Reviewer:** Cameron Douglass, Ph.D.  
Senior Science Advisor, USEPA/OCSPP/OPP/EFED/ERBIV

**Signature:**   
**Date:** 15 February 2018

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**PMRA Reviewer:** Vedad Izadi  
Evaluation Officer, PMRA/EAD/ERSII

**Date:** 6 October 2017

**CITATION:** Classen, C. 2012. Field study to evaluate potential side-effects of BAS 440 UV I on honeybees (*Apis mellifera* L.). Unpublished study conducted by Rifcon GmbH, Goldbeckstrasse 13, 69493 Hirschberg, Germany. Report No. 394447. Sponsored by BASF SE.

**Executive Summary:**

The effects of formulated afidopyropen (BAS 440 UV I (BAS 440 00 I; 9.9% active ingredient)) on honeybee (*Apis mellifera*) colonies was evaluated under full-field study conditions. A single foliar application of 0.5 L BAS 440 UV I/ha (50 g a.i./ha; 0.045 lbs a.i./A) was made to flowering *Phacelia tanacetifolia* while bees were actively foraging. Additionally, a water-treated (negative) control was included in the study. Both of the study groups had 4 replicates (= bee colonies). Foraging activity was checked daily from 3 days before to 7 days after treatment (-3 – 7 DAT). Mortality and behavior was assessed daily from -3 - 7 DAT; colony development, i.e., adult and brood (eggs, larvae, pupae) development) was assessed at -3, 4, 11, 18 and 25 DAT.

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At -3 DAT colonies were reported to be healthy with queens, all stages of brood and a sufficient amount of food. Although not statistically significant ( $p>0.05$ ), in the days leading up to application, adult bee mortality was higher in the afidopyropfen colonies compared to the negative control. In the days following treatment, mortality of both afidopyropfen and the negative control colonies was comparable. Over the study period, the total number of bees increased by a factor of 1.3x and 1.2x in control and afidopyropfen colonies, respectively. In general, control colonies were roughly 6% larger than afidopyropfen colonies at -3DAT and were 14% larger than afidopyropfen colonies by 25 DAT. Other than at -2 DAT where total mortality (adults plus pupae) in afidopyropfen colonies was significantly ( $p<0.05$ ) different (55% higher) than negative controls, there were no statistically significant differences in total mortality between negative and afidopyropfen colonies.

The mean foraging activity of bees in the afidopyropfen group was generally higher than that of the control group even though afidopyropfen colonies were initially smaller  $11,814 \pm 1,421$  bees (mean  $\pm$  std dev) compared to the negative control ( $12,545 \pm 2,785$ ); however, forage area for the afidopyropfen colonies may have been more confined given that the afidopyropfen-treated phacelia occupied an area of 0.6 ha while the negative control encompassed 1.3 ha. Bee foraging activity during the last two assessment periods on the day of treatment was significantly ( $p<0.05$ ) different (lower; range 67 – 93%) in afidopyropfen colonies relative to controls; however, for the remainder of the study, there were no significant differences in bee foraging activity between the negative and afidopyropfen colonies.

There were no statistical differences in the number of eggs, larvae, pupae or males at any of the assessment times. Relative to -3 DAT, the number of eggs at 25 DAT was relatively consistent in both the negative control and afidopyropfen groups. By 25 DAT, the number of larvae decreased by 15% in the negative control and increased by 12% in the afidopyropfen colonies relative to -3DAT. The numbers of pupae at 25 DAT were 24% and 45% higher in negative control and afidopyropfen colonies, respectively, relative to -3 DAT.

There were statistically significant ( $p<0.05$ ) differences (higher) in the total number of cells containing honey in afidopyropfen colonies at 18 DAT. In general, over the course of the study -3 – 25 DAT, honey reserves declined in both negative control and afidopyropfen colonies; by 18 DAT, pollen reserves in both study groups also declined. By 25 DAT, the mean total number of cells containing honey had declined by 79% and 58% in the negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. For pollen, by 25 DAT, stores had declined by 73% and 22% in negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. Since honey stores were significantly higher in afidopyropfen colonies and there were no significant differences in pollen stores relative to negative controls, and given that bee foraging activity was higher in the afidopyropfen colonies toward the end of the study, treatment with afidopyropfen did not appear to adversely affect food reserves.

Sublethal behavioral effects after application on the day of treatment (0aa DAT) were noted, wherein approximately 100 bees in the afidopyropfen-treated dead bee trap were reported as having coordination problems; however, the bees were noted as not showing conspicuous behavior at the assessment after bee flight was observed.

The treatment unit in this field study is the plot itself rather than the colonies within the plot; therefore, this study does not contain true replicates. Data were analyzed though as pseudo-replicates using

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parametric analysis of variance with the assumption of normally distributed data with homogeneous variances. There is uncertainty regarding exposure since treatment solutions were not verified analytically, residue data were not collected to indicate whether afidopyropfen was present on treated foliage/flowers or in nectar/pollen, and use of a reference toxicant was not suitable. Although there were transient statistically significant ( $p<0.05$ ) effects on bee foraging activity in the afidopyropfen-treated group on the day of treatment, the effects did not appear to adversely affect the colonies over the course of the study as foraging activity in the afidopyropfen group surpassed that of the negative control toward the end of the study. Declines in honey reserves throughout the study and declines in pollen stores by 25 DAT likely reflected the limited availability of suitable forage and were not considered treatment related.

### **Results Synopsis:**

The full-field study does not contain suitable replicates; however, the data indicate that treatment of phacelia with afidopyropfen resulted in a statistically significant ( $p<0.05$ ) but transient decrease in bee foraging activity on the day of treatment; however, foraging activity during the remainder of the study was similar to and/or exceeded that of the negative control. Adult bee mortality, total numbers of adults and brood (eggs, larvae, pupae and males), and food reserves were similar between negative control and afidopyropfen groups. Based on the significant effect (decrease) in adult bee foraging activity, the NOAEC for the study is <0.05 kg BAS afidopyropfen/ha (<0.045 lbs a.i./A); however, this effect did not appear to have any long-term impact on the colony under the conditions tested.

**EPA Classification:** Supplemental (should only be used qualitatively)

**PMRA Classification:** Reliable with restrictions

### **I. DATA SOURCE**

<b>USEPA MRID No.:</b>	49689229
<b>PMRA UKID:</b>	2627496
<b>Study Title:</b>	Field study to evaluate potential side-effects of BAS 440 UV I on honeybees ( <i>Apis mellifera</i> L.)
<b>Study Author(s):</b>	Classen, C.
<b>Testing Laboratory:</b>	Rifcon GmbH, Goldbeckstrasse 13, 69493 Hirschberg, Germany
<b>Laboratory Report No.:</b>	394447
<b>Sponsor Study No.:</b>	2013/7006254
<b>Study Completion Date:</b>	20 December 2012
<b>Data Access:</b>	Data submitter is data owner
<b>Data Protection Claimed:</b>	Yes

### **II. MATERIALS AND METHODS**

**Test Guideline:** EPPO Standards PP 1/170(4) (2010), OEPP/EPPO Bulletin 40, p. 313-319;  
OCSPP 850.3040

**Deviations from Guideline:**

- 1) Afidopyropfen replicate T2 did not contain a sister queen;
- 2) The foraging activity at the control field was too low on the day of application; and,
- 3) Missing weather data at 7 days after treatment (DAT 7).

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**GLP Compliance:** Yes (incl. certificate); Laboratory certified by the Landesanstalt für Umwelt, Messungen und Naturschutz Baden-Württemberg. Conducted in compliance with Principles of Good Laboratory Practice (GLP), German Chemical Law (Chemikaliengesetz) dated (current version of Annex 1 dated 7/02/08; current OECD GLP, ENV/MC/Chem(98)17: Environmental Health and Safety Publications.; OECD Guidance Document ENV/JM/MONO(99)22: The Application of the GLP Principles to Field Studies; OECD Series on Principles of GLP and Compliance Monitoring (No. 6 [revised]).

#### A. MATERIALS

**Test Material:** BAS 440 UV I (equivalent to BAS 440 00 I, VERSYS™)

**Test Material Identity:** Batch No. 1762-20; a yellow, liquid formulation comprising afidopyropen (BAS 440 I): 100 g/L (nominal), 99.0 g/L (9.9% measured).

**Details on Preparation and Application of Test Materials:**

The application was carried out during bee flight at full flowering of the crop (*Phacelia tanacetifolia*). All substances were applied in 400 L/ha water using a calibrated boom sprayer.

**Analytical Monitoring:** No

**Details on Analytical Monitoring:**

N/A

**Reference Material:** None

**Vehicle:** None

**Test Organism (Species):** *Apis mellifera* L. (honeybee)

**Animal Group:** Arthropoda/Insecta/Hymenoptera/Apidae

**Details on Test Organisms:** Healthy bee colonies with 10 combs, including 3-5 brood combs and 8,000 – 21,600 food cells. Approximate number of bees per hive three days before application: 10,335 – 16,575; Sister queens from 2011 (exception: colony T2) were used to guarantee colonies which are as equal as possible. Source: Kemmeter/Fuchs commercial apiary, 68167 Mannheim, Germany. Colonies appeared to be in good health and had not been treated up to four weeks prior to study initiation. All hives were equipped with a dead zone dead bee trap at each of their entrances.

#### B. STUDY DESIGN AND METHODS

**Study Type:** Full-field study

**Test Duration Type:** Long-term (chronic) toxicity test

**Limit Test:** Yes

**Total Exposure Duration:** 7 days

**Post-Exposure Observation Period:**  
18 days

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**Remarks:** Mortality of adult bees and pupae was assessed 3 days before to 7 days after application; foraging activity of the bees was assessed 3 days before to 7 days after application (-3 – 7 DAT); colony development was assessed at -3, 4, 11, 18, and 25 DAT.

**Test Environmental Conditions:**

13.1 °C – 24.3 °C before application, 12.6 °C – 23.4 °C on day of treatment with afidopyropfen, 5.1 °C – 30.2 °C during exposure phase, 11.3 °C – 35.9 °C during monitoring phase; relative humidity 65.2% - 71.1% average during application.

**Photoperiod and Lighting:** Natural

**Nominal and Measured Concentrations:**

Negative Control: tap water  
BAS 440 UV I: 0.5 L BAS 440 UV I/ha (corresponding to 50 g a.i./ha; 0.045 lbs a.i./A); all treatments were applied in 400 L water/ha.

**Test Plots:**

The control test site was located in Heddesheim, Baden-Wurttemberg, Germany and the test item site was located in Ladenburg, Baden-Wurttemberg, Germany; size of the plots: 1.3 ha for the negative control, 0.6 ha for afidopyropfen, planted with full flowering *Phacelia tanacetifolia*.

**Test Design:**

Full field test under natural conditions. Approximately 10 weeks before start of the experimental phase the bee attractive test plant *P. tanacetifolia* was sown at a drilling rate of 14 kg seeds/ha. Healthy bee colonies were introduced eight days before application. The application was carried out during bee flight at full flowering of the crop. The trial was carried out using one plot for each treatment group, with four bee colonies (replicates) per treatment. The exposure period of the bees to the water and afidopyropfen-treated crops was seven days. On day 8 after treatment (DAT 8), the hives were removed from the plots and placed on a monitoring site in Ladenburg in the state Baden-Württemberg, Germany for further observations until DAA 25.

Within each plot there were randomly distributed linen sheets (0.6 m x 10 m) of which one was installed in front of the hives. Five 1 m<sup>2</sup> areas were identified in each plot for counting foraging bees. The negative control field was located approximately 3,800 m from the afidopyropfen field.

### III. APPLICANT'S REPORTED RESULTS AND DISCUSSION

**Exposure Duration:** 7 days

**Endpoint(s):** Mortality, foraging activity, behavior, colony development (*i.e.*, colony strength, colony weight, brood development)

**Effect Concentration:** ≥ 0.5 L product/ha (corresponding to 50 g a.i./ha – refer to amendment at end of study report)

<b>Basis for Concentration:</b>	Nominal
<b>Effect Concentration Type:</b>	Test material (afidopyropen)
<b>Basis for Effect:</b>	Survival of adult bees, foraging activity, behavior, colony development, colony weight, residues.

**Applicant-Provided Results:**

**Mortality**

Adult honeybees:

According to the study author, honeybee mortality during the pre-application phase was higher in colonies destined to be treated with afidopyropen compared to the control replicates (**Table 1**). The study author normalized mortality data by assuming the mean pre-application mortality to be 100% in order to compare mortality values. After the application the relative trend of mortality of both treatment groups was comparable. Due to the increased mortality of one single afidopyropen replicate until day three after application the curve of the test item replicates showed a (statistically not significant) higher mortality compared to the control (Mann-Whiney-U-test,  $\alpha = 0.05$ ).

Pupae:

Daily mean mortalities of worker pupae in the dead bee traps during the post-application period were between 0.0 and 0.5 dead pupae in the control and between 0.0 and 0.8 dead pupae in the test item group. The overall mean numbers of dead pupae in dead bee traps of the different treatment groups in the post-application period were 0.1 and 0.2 for the control and the test item, respectively.

No dead pupae were recorded on the linen sheets.

**Table 1. Effects of formulated afidopyropen (BAS 440 UV I; 9.9% active ingredient) on honeybee (*Apis mellifera*) mortality, foraging activity and colony development under full-field conditions.**

	Control	BAS 440 UV I
<b>Mean mortality of worker bees/colony/day [<math>\pm</math> SD]<sup>3)</sup> in dead bee traps</b>		
pre-application phase <sup>1)</sup>	$6.8 \pm 1.9$	$10.3 \pm 3.4$
exposure phase <sup>1)</sup>	$6.7 \pm 3.4$	$15.5 \pm 5.3$
<b>Mean foraging activity bees/m<sup>2</sup>/day [<math>\pm</math> SD]<sup>3)</sup></b>		
pre-application phase	$2.6 \pm 1.3$	$6.1 \pm 1.2$
exposure phase	$2.3 \pm 1.2$	$5.0 \pm 3.3$
<b>Mean colony strength [<math>\pm</math> SD]<sup>3)</sup></b>		
DAT -3	$12,545 \pm 2,785$	$11,814 \pm 1,421$
DAT 4	$12,870 \pm 1,797$	$11,456 \pm 1,474$
DAT 11	$13,374 \pm 2,155$	$13,244 \pm 1,881$

DAT 18 <sup>2)</sup>	14,089 ± 3,526	13,861 ± 2,681
DAT 25 <sup>2)</sup>	16,201 ± 2,871	13,975 ± 2,108
<b>Mean development of brood cells<sup>3)</sup></b>		
DAT -3	24,850 ± 8,706	24,250 ± 7,459
DAT 4	29,250 ± 7,228	28,900 ± 9,525
DAT 11	34,150 ± 6,545	31,900 ± 7,730
DAT 18 <sup>2)</sup>	35,800 ± 2,433	33,600 ± 5,511
DAT 25 <sup>2)</sup>	29,600 ± 917	29,950 ± 3,352

1) Sum of dead individuals found in dead bee traps only.

2) Due to the loss of its queen after DAT 11, colony C2 was excluded from any calculations for DAT 18 and 25.

3) Mean of four replicates.

#### Foraging activity:

According to the study author, mean foraging activity for the afidopyropfen-treated sites was generally higher than that of the control group (**Table 1**). This can be accounted by the progressive development of the crop on the one hand and by the larger crop area at the control field on the other. Apart from a short-term decrease in foraging activity after application, no statistically significant effect on foraging activity could be detected. According to the study author, to facilitate the comparison of the foraging activity, the mean pre-application foraging activity of each treatment group was assumed to be 100%. The application resulted in decreased adult bee foraging activity at both afidopyropfen and control sites on the day of application. The duration of decrease was longer at the afidopyropfen sites. Until 4 DAT, mean foraging activity of the afidopyropfen replicates fluctuated below the mean pre-application foraging activity; however, by 5 DAT foraging activity increased above the pre-application values. Beginning at 1 DAT and continuing for four days, mean foraging activity of the control replicates was below that of the mean pre-application period. The study author considered the pattern in foraging activity comparable in both the negative control and afidopyropfen groups; there were no statistically significant differences detected between the control and the afidopyropfen groups (Mann-Whitney-U-test,  $\alpha = 0.05$ ).

#### Sublethal effects:

Bees were observed for sublethal effects in parallel to the foraging activity assessments as well as during emptying of the dead bee traps (-3 to 7 DAT). According to the study authors, despite sporadic observations no general changes in behavior were observed; however on the day of application (after treatment), approximately 100 bees in the afidopyropfen-treated dead bee trap were reported as having coordination problems. The bees were noted as not showing conspicuous behavior at the assessment after bee flight was observed.

#### Colony strength:

According to the study author, mean colony strength at pre-application assessment was similar in both the negative and afidopyropfen groups. For a better comparison between the treatment groups, the author set initial values at 100%. Colony strength remained comparable in the negative control and the afidopyropfen groups further into the study. The maximum mean strength of the control and afidopyropfen colonies occurred at 25 DAT (control colonies: 16,201 ± 2,871 bees/colony representing a

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129% increase relative to -3 DAT); afidopyropfen colonies:  $13,975 \pm 2,108$  bees/colony (118%) (**Table 1**). The minimum mean strength of the control colonies was observed on DAT -3 ( $12,545 \pm 2,785$  bees/colony), the test item colonies showed their minimum strength on DAT 4 ( $11,456 \pm 1,474$  bees/colony (97%). (Student-t test, one-sided smaller  $\alpha = 0.05$ ).

General brood assessments:

According to the study author, during the entire monitoring phase of the study, the proportion of brood (eggs, larvae, pupae) was comparable between the control and the afidopyropfen groups; there was no indication of any afidopyropfen-related effects on brood development. Due to the loss of its queen after the colony assessment on DAT 11, one negative control colony (C2) was excluded from further brood assessments from 18 DAT onward. At the first colony assessment, the mean number of total brood cells in the negative control and afidopyropfen colonies was  $24,850 \pm 8,706$  and  $24,250 \pm 7,459$ , respectively, which the study author indicated was a comparable number of brood across study groups.

The study author reported that during the entire monitoring phase of the study no differences were observed between the afidopyropfen and negative control groups with respect to the mean number of all brood stages together as well as each of the respective brood stages (*i.e.*, eggs, larvae and pupae). In general, the total mean amount of brood in the negative control and the afidopyropfen groups increased towards DAT 18 and then decreased towards the last colony assessment on DAT 25 (the negative control mean values excluded replicate C2). The study author noted that the decline toward the end of the study was primarily caused by a season-related reduction of the brood as well as by the reduced nectar and pollen flow in summer.

The study author concluded that formulated afidopyropfen applied at a nominal rate of 0.5 L product/ha (corresponding to 50 g a.i./ha) during honeybee flight caused no adverse effects on foraging activity, adult and pupal mortality, condition of the colonies or overall bee brood development over an observation period of 25 days.

**Applicant-Reported Statistics and Error Estimates**

Descriptive statistics; Shapiro Wilks-test for normal distribution followed by Mann-Whitney-U-test.

**IV. OVERALL REMARKS, ATTACHMENTS**

Electronic spreadsheet files of raw response data are provided with submission.

**V. PRIMARY REVIEWER'S ANALYSIS AND CONCLUSIONS**

Colony Strength

Analysis of total number of adult bees occupying comb and colony walls (box) (means summarized in **Table 2**) were largely similar to that of the study author. There were no statistical differences between afidopyropfen and negative control colonies in terms of total number of adult bees at any of the time points assessed. Over the study period, the total number of bees increased by a factor of 1.3x and 1.2x in control and afidopyropfen colonies, respectively. In general, control colonies were roughly 6% larger than afidopyropfen colonies at -3DAT and were 14% larger than afidopyropfen colonies by 25 DAT.

**Table 2. Summary of mean total number of adult bees in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control colonies at each assessment time.**

Assessment Time (Days after Treatment)	Control (mean ± std dev)	Afidopyropfen (mean ± std dev)
-3	12,545 ± 2,785	11,814 ± 1,421
4	12,870 ± 1,797	11,456 ± 1,474
11	13,374 ± 2,155	13,244 ± 1,881
18	14,089 ± 3,526	13,861 ± 2,681
25	16,204 ± 2,870	13,975 ± 2,108

**Bee Mortality**

**Table 3** summarizes the numbers of dead adult bees (females plus drone) in the dead zone bee traps during each of the pre-treatment (-3 – 0<sub>bt</sub> DAT) and post-treatment (0<sub>at</sub> – 7 DAT) assessment time points.

**Table 4** summarizes the total number of dead bees (adults plus pupae) in the dead zone bee traps. Other than at -2 DAT where total mortality in afidopyropfen colonies was significantly ( $p<0.05$ ) different (55% higher) than negative controls, there were no statistically significant differences in total mortality between negative and afidopyropfen colonies.

Although not statistically significant, the adult worker bee mean mortality in the afidopyropfen-treated field was higher compared to the control field for 1 – 3 DAT. This was a result of one of the four hives (T4) which showed an increased mortality (dead adult worker bees in bee traps) on DAT 1 (46 dead bees), DAT 2 (52 dead bees) and DAT 3 (58 dead bees). The adult worker bee mortality of the three other hives (T1, T2 and T3) ranged between 2 and 25 dead bees in the respective period. The increased mortality in this one hive for 1 – 3 DAT results in a large standard deviation from the mean for the afidopyropfen-treated field, which is consequently not statistically significantly different from the control mean. Despite this, overall adult bee mortality over the course of the study was similar between negative control and afidopyropfen groups.

**Table 3. Summary of mean adult bee mortality in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control colonies at each assessment time.**

Assessment Time (Days after Treatment)	Control	Afidopyropfen
-3	7.25 ± 2.88	11.8 ± 5.80
-2	9.25 ± 3.30	15.0 ± 0.0
-1	5.50 ± 2.08	6.00 ± 2.71
0 <sub>bt</sub>	5.50 ± 3.32	9.50 ± 5.51
0 <sub>at1</sub>	0.00 ± 0.0	0.50 ± 0.58
0 <sub>at2</sub>	2.33 ± 0.58	7.75 ± 5.74
1	3.75 ± 2.22	18.8 ± 19.4
2	7.50 ± 3.00	22.5 ± 22.1
3	3.75 ± 2.22	19.3 ± 26.3
4	6.25 ± 3.30	9.25 ± 3.86
5	9.75 ± 6.95	15.0 ± 4.24
6	12.0 ± 2.58	20.5 ± 9.88
7	9.00 ± 2.45	11.8 ± 2.22

**Table 4. Summary of mean total bee mortality (adult plus pupae) in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control colonies at each assessment time.**

Assessment Time (Days after Treatment)	Control	Afidopyropfen
-3	8.00 ± 3.16	11.8 ± 5.80
-2	10.0 ± 4.24	15.5 ± 0.58*
-1	5.50 ± 2.08	6.50 ± 2.52
0 <sub>bt</sub>	7.00 ± 6.16	10.0 ± 5.89
0 <sub>at1</sub>	0.00 ± 0.00	0.50 ± 0.58
0 <sub>at2</sub>	2.33 ± 0.58	7.75 ± 5.74
1	4.25 ± 2.22	19.3 ± 18.9
2	7.50 ± 3.00	23.0 ± 21.6
3	4.00 ± 1.63	19.3 ± 26.3
4	6.25 ± 3.30	9.25 ± 3.86
5	9.75 ± 6.95	15.0 ± 4.24
6	12.2 ± 2.99	21.2 ± 11.1
7	9.00 ± 2.45	11.8 ± 2.22

\*significantly different ( $p<0.05$ ) from negative control.

**Table 5** summarizes the total number of bees reported on linen sheets in negative and afidopyropfen groups. These data were not replicated; therefore, no statistical comparisons were possible between the two groups.

**Table 5. Summary of mean total bee mortality on linen sheets in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control groups at each assessment time.**

Assessment Time (Days after Treatment)	Control	Afidopyropfen
-3	0	5
-2	3	6
-1	1	2
0 <sub>bt</sub>	4	2
0 <sub>at1</sub>	0	1
0 <sub>at2</sub>	4	0
1	2	1
2	4	3
3	4	4
4	3	3
5	1	3
6	1	3
7	2	2

#### Foraging Activity

Foraging activity in the afidopyropfen group was significantly ( $p<0.05$ ) different (higher) than the negative control on the three days prior to treatment and on the day of treatment just before

applications (**Table 6**). The last two observations periods on the day of treatment, foraging activity was significantly different (lower) in the afidopyropfen group. At 2, 5, 6 and 7 DAT foraging activity in the afidopyropfen group was significantly ( $p<0.05$ ) different (higher) than the negative control. Although colony strength estimates (**Table 2**) indicated that negative control colonies contained more bees, foraging activity leading up to application was roughly 1.8 – 4.5x higher in the afidopyropfen colonies. In the final two assessments on the day of treatment, foraging activity in the afidopyropfen colonies was 2.8 – 14x lower than the negative controls; however, foraging activity was once again similar to that of the negative controls by 1 DAT.

**Table 6. Summary of mean foraging activity in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control colonies at each assessment time.**

Assessment Time (Days after Treatment)	Control	Afidopyropfen
-3	1.2 ± 1.3	5.4 ± 1.1*
-2	2.0 ± 1.6	6.8 ± 0.84*
-1	2.8 ± 0.84	4.8 ± 0.84*
0 <sub>bt</sub>	4.2 ± 1.3	7.4 ± 1.9*
0 <sub>at1</sub>	2.0 ± 2.0	3.8 ± 1.8
0 <sub>at2</sub>	2.0 ± 1.4	3.2 ± 1.6
0 <sub>at3</sub>	2.0 ± 1.4	3.2 ± 1.6
0 <sub>at4</sub>	3.2 ± 1.1	2.6 ± 1.9
0 <sub>at5</sub>	2.0 ± 0.71	1.8 ± 0.84
0 <sub>at6</sub>	3.0 ± 1.2	1.0 ± 1.0*
0 <sub>at7</sub>	2.8 ± 2.0	0.2 ± 0.45*
1	1.2 ± 1.6	2.6 ± 0.89
2	4.4 ± 2.3	4.8 ± 1.1
3	0.8 ± 0.45	3.0 ± 1.6*
4	1.2 ± 1.1	0.8 ± 0.84
5	2.2 ± 1.1	7.0 ± 2.0*
6	3.2 ± 2.4	10 ± 3.6*
7	2.8 ± 0.84	8.6 ± 2.4*

\*significantly different ( $p<0.05$ ) from negative control.

#### Brood

**Table 7** summarizes the mean total number of cells containing developing brood (eggs, larvae and pupae) and males from -3 to 25 DAT. Since control colony 2 was determined to be queenless by 18 DAT, data from this colony were not included in statistical analyses of comb contents at 25 DAT. There were no statistical differences in the number of eggs, larvae, pupae or male brood at any of the assessment times. Although the mean number of eggs in afidopyropfen colonies ( $306,250 \pm 599,038$ ) at 11 DAT was 53x higher than controls ( $5,750 \pm 2265$ ), variability was high ( $CV=196\%$ ) and limited the extent to which differences could be detected. Relative to -3 DAT, the number of eggs at 25 DAT was relatively consistent in both the negative control and afidopyropfen groups. By 25 DAT, the number of larvae decreased by 15% in the negative control and increased by 12% in the afidopyropfen colonies relative to -3 DAT. The numbers of pupae at 25 DAT were 24% and 45% higher in negative control and afidopyropfen colonies, respectively, relative to -3 DAT. These numbers suggest that afidopyropfen treatment did not have an adverse effect on brood development under the conditions tested.

**Table 7. Summary of number of comb cells containing food (pollen and honey), brood (eggs, larvae, pupae), and males in formulated afidopyropfen (BAS 440 UV I; 9.9% active ingredient) and negative control colonies at each assessment time.**

DAT	Matrix	Controls	Afidopyropfen
		Mean ± std deviation	Mean ± std deviation
-3	Honey	8,525 ± 2241	12,100 4,824
	Pollen	3,000 ± 848.5	2,250 ± 789.5
	Eggs	5,454 ± 1660	4,650 ± 1,418
	Larvae	7,800 ± 1337	8,500 ± 4,371
	Pupae	11,350 ± 5589	11,100 ± 4,646
	Male	0.0 ± 0.0	800 ± 1,600
4	Honey	6,350 ± 3206	8,800 ± 938.1
	Pollen	3,100 ± 774.6	2,250 ± 526
	Eggs	6,325 ± 699.4	6,300 ± 2,030
	Larvae	9,000 ± 2439	7,150 ± 2,265
	Pupae	13,700 ± 4310	14,400 ± 5,208
	Male	86.2 ± 172.5	0.0 ± 0.0
11	Honey	6,200 ± 6079	8,500 ± 2,230
	Pollen	2,850 ± 1857	2,300 ± 808.3
	Eggs	5,750 ± 2265	306,250 ± 599,038
	Larvae	10,950 ± 2241	12,000 ± 4,584
	Pupae	17,300 ± 3565	15,200 ± 5,161
	Male	115.0 ± 162.6	0.0 ± 0.0
18	Honey	2,601 ± 2190	6,200 ± 1,211*
	Pollen	2,050 ± 1340	2,500 ± 2,254
	Eggs	4,700 ± 3152	6,250 ± 1,088
	Larvae	8,450 ± 4054	9,750 ± 2,217
	Pupae	19,100 ± 2656	17,600 ± 3,589
	Male	143.8 ± 172.5	0.0 ± 0.0
25	Honey	1,933 ± 2,663	5,100 ± 1,390
	Pollen	1,000 ± 529.2	1,750 ± 1,330
	Eggs	4,933 ± 1,617	4,300 ± 871.8
	Larvae	8,800 ± 1,637	9,550 ± 1,611
	Pupae	15,600 ± 200	16,100 ± 2,392
	Male	38.3 ± 66.4	0.0 ± 0.0

\*significantly different ( $p<0.05$ ) from negative control.

#### Food Stores

**Table 7** summarizes the mean number of cells containing food (honey and pollen) reserves. There were statistically significant ( $p<0.05$ ) differences (higher) in the total number of cells containing honey in afidopyropfen colonies at 18 DAT. In general, over the course of the study -3 – 25 DAT, honey reserves declined in both negative control and afidopyropfen colonies; by 18 DAT, pollen reserves in both study groups also declined. By 25 DAT, the mean total number of cells containing honey had declined by 79% and 58% in the negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. For pollen, by 25 DAT, stores had declined by 73% and 22% in negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. Since honey stores were significantly higher in afidopyropfen colonies and there were no significant differences in pollen stores relative to negative

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controls, and given that bee foraging activity was higher in the afidopyropfen colonies toward the end of the study, treatment with afidopyropfen did not appear to adversely affect food reserves.

**Reviewer's Statistical Verification:**

Reviewer's statistical analysis conducted using the Statistical Analysis System (SAS®; SAS Institute; Cary, NC; Release 9.4). Summary statistics generated using Proc Mean; statistical comparisons completed using Proc ANOVA with the assumption of normality and homogeneity of variances and alpha=0.05.

**Reviewer's Comments:**

Based on data reported in the study, applications to control plot (1.3 ha) took place between 12:07 and 12:36 hrs (29 minutes) and application to the afidopyropfen plot (0.6 ha) took place from 13:55 to 14:15 hrs (20 min); this represents roughly 7 and 5 min to treat the control and afidopyropfen plots, respectively. The afidopyropfen plot is roughly 54% smaller than the negative control. Four colonies were placed in each of the plots; however, since the plot is treated, it represents the experimental unit rather than the colony. Therefore, technically, the individual colonies within the plot are not replicates.

Air temperatures during applications to the negative control plots ranged from 21.7 – 23.2°C with relative humidity ranging from 41 – 42%; during applications to the afidopyropfen plots, temperatures ranged from 22.5 – 22.9°C with relative humidity ranging from 33 – 41%. According to the study report, at -3 to -1 DAT, there were 13, 3, and 2 L/m<sup>2</sup> of rainfall and at 6 and 7 DAT, there were 1- 2 L/m<sup>2</sup>.

Since bees were free foraging and residues were not measured to verify treatment solutions or whether residues were detectable on treated foliage/flowers or whether residues were in pollen/nectar collected by bees, actual exposure to the afidopyropfen is uncertain.

According to Figure 1 of the report, the afidopyropfen field was located ~3,800 m from the negative control field; however, based on the scale provided with the figure, the distance separating the two sites appears to be 5,600 m. At 8 DAT, colonies were relocated to a monitoring site. Although not specified in the report and again based on Figure 1 of the report, the monitoring site appeared to roughly 5,600 m from either of the exposure sites and appeared to be closer to a residential area.

**Reviewer's Conclusions:**

Over the study period, the total number of bees increased by a factor of 1.3x and 1.2x in control and afidopyropfen colonies, respectively. In general, control colonies were roughly 6% larger than afidopyropfen colonies at -3DAT and were 14% larger than afidopyropfen colonies by 25 DAT. Other than at -2 DAT where total mortality (adults plus pupae) in afidopyropfen colonies was significantly ( $p<0.05$ ) different (55% higher) than negative controls, there were no statistically significant differences in total mortality between negative and afidopyropfen colonies.

The mean foraging activity of bees in the afidopyropfen group was generally higher than that of the control group even though afidopyropfen colonies were initially smaller  $11,814 \pm 1,421$  bees (mean  $\pm$  std dev) compared to the negative control ( $12,545 \pm 2,785$ ); however, forage area for the afidopyropfen colonies may have been more confined given that the afidopyropfen-treated phacelia occupied an area of 0.6 ha while the negative control encompassed 1.3 ha. Bee foraging activity during the last two assessment periods on the day of treatment was significantly ( $p<0.05$ ) different (lower; range 67 – 93%)

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in afidopyropfen colonies relative to controls; however, for the remainder of the study, there were no significant differences in bee foraging activity between the negative and afidopyropfen colonies.

There were no statistical differences in the number of eggs, larvae, pupae or males at any of the assessment times. Relative to -3 DAT, the number of eggs at 25 DAT was relatively consistent in both the negative control and afidopyropfen groups. By 25 DAT, the number of larvae decreased by 15% in the negative control and increased by 12% in the afidopyropfen colonies relative to -3 DAT. The numbers of pupae at 25 DAT were 24% and 45% higher in negative control and afidopyropfen colonies, respectively, relative to -3 DAT.

There were statistically significant ( $p<0.05$ ) differences (higher) in the total number of cells containing honey in afidopyropfen colonies at 18 and 25 DAT. In general, over the course of the study -3 – 25 DAT, honey reserves declined in both negative control and afidopyropfen colonies; by 18 DAT, pollen reserves in both study groups also declined. By 25 DAT, the mean total number of cells containing honey had declined by 79% and 58% in the negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. For pollen, by 25 DAT, stores had declined by 73% and 22% in negative control and afidopyropfen colonies, respectively, relative to stores at -3 DAT. Since honey stores were significantly higher in afidopyropfen colonies and there were no significant differences in pollen stores relative to negative controls, and given that bee foraging activity was higher in the afidopyropfen colonies toward the end of the study, treatment with afidopyropfen did not appear to adversely affect food reserves.

Sublethal behavioral effects after application on the day of treatment (0aa DAT) were noted, wherein approximately 100 bees in the afidopyropfen-treated dead bee traps were reported as having coordination problems; however, the bees were noted as not showing conspicuous behavior at the assessment after bee flight was observed.

The treatment unit in this field study is the plot itself rather than the colonies within the plot; therefore, this study does not contain true replicates. Data were analyzed though as pseudo-replicates using parametric analysis of variance with the assumption of normally distributed data with homogeneous variances. There is uncertainty regarding exposure since treatment solutions were not verified analytically, residue data were not collected to indicate whether afidopyropfen was present on treated foliage/flowers or in nectar/pollen, and use of a reference toxicant was not suitable. Although there were transient statistically significant ( $p<0.05$ ) effects on bee foraging activity in the afidopyropfen-treated group on the day of treatment, the effects did not appear to adversely affect the colonies over the course of the study as foraging activity in the afidopyropfen group surpassed that of the negative control toward the end of the study. Declines in honey reserves throughout the study and declines in pollen stores by 25 DAT likely reflected the limited availability of suitable forage and were not considered treatment related.

The data indicate that treatment of phacelia with afidopyropfen resulted in a statistically significant ( $p<0.05$ ) but transient decrease in bee foraging activity on the day of treatment; however, foraging activity during the remainder of the study was similar to and/or exceeded that of the negative control. Adult bee mortality, total numbers of adults and brood (eggs, larvae, pupae and males), and food reserves were similar between negative control and afidopyropfen groups. Based on the significant effect (decrease) in adult bee foraging activity, the NOAEC for the study is <50 g a.i./ha (<0.045 lbs

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a.i./A); however, this effect did not appear to have any long-term impact on the colony under the conditions tested.

**EPA Classification:** Supplemental (should only be used qualitatively)

**PMRA Classification:** Reliable with restrictions

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**APPENDIX I. Output of Statistics Verified by the Reviewer**

**MEAN NUMBER OF TOTAL NUMBER OF BEES PER COLONY**

Obs	TRT	DAT	_TYPE_	_FREQ_	MEAN	STD
1	Afidopyr	-3	0	4	11813.75	1421.48
2	Afidopyr	4	0	4	11456.25	1474.01
3	Afidopyr	11	0	4	13243.75	1881.17
4	Afidopyr	18	0	4	13861.25	2680.74
5	Afidopyr	25	0	4	13975.00	2107.58
6	Control	-3	0	4	12545.00	2784.65
7	Control	4	0	4	12870.00	1797.42
8	Control	11	0	4	13373.75	2155.40
9	Control	18	0	4	14088.75	3526.16
10	Control	25	0	4	16203.75	2869.77

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**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-3**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

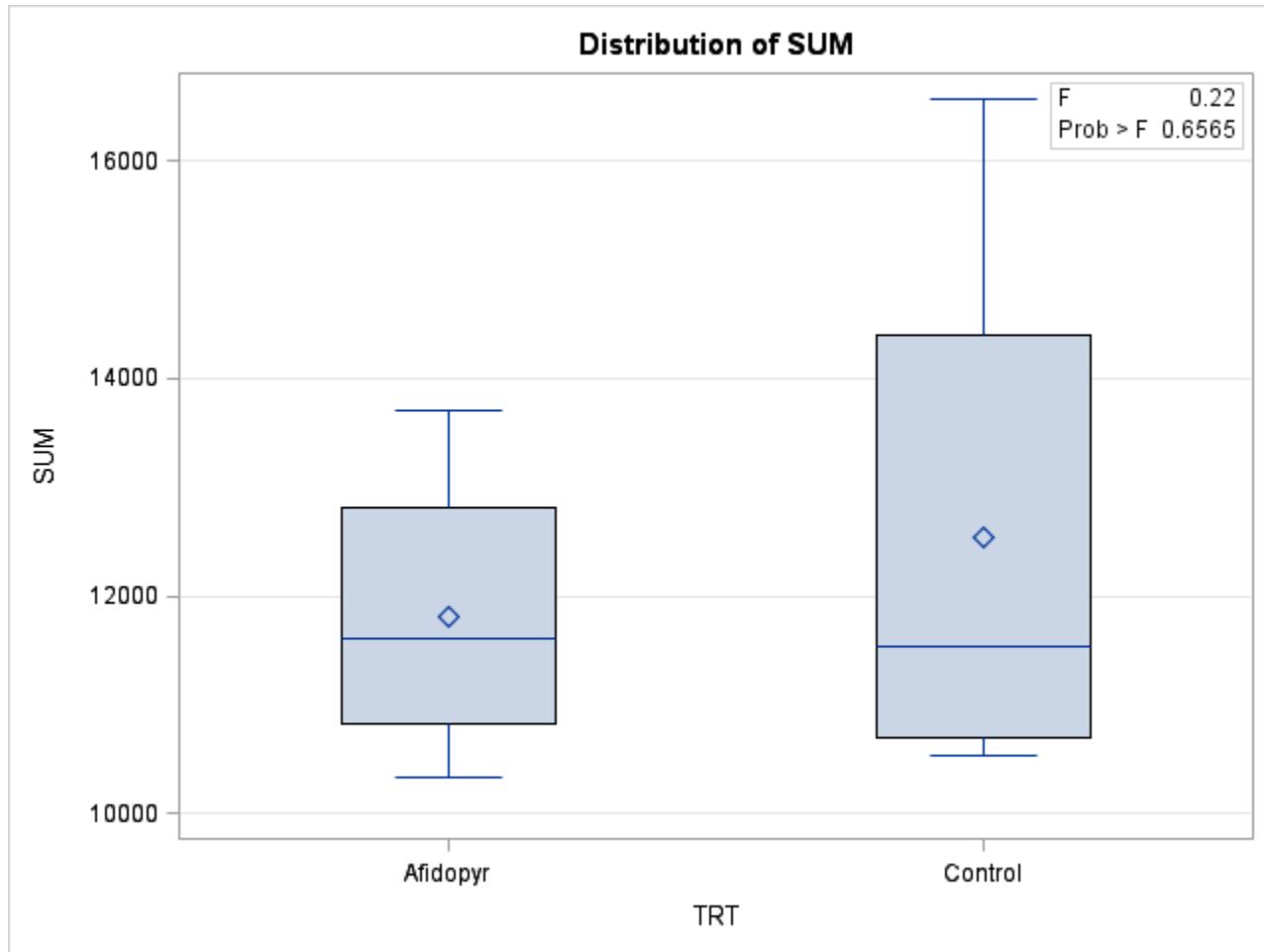
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****Dependent Variable: SUM****DAT=-3**

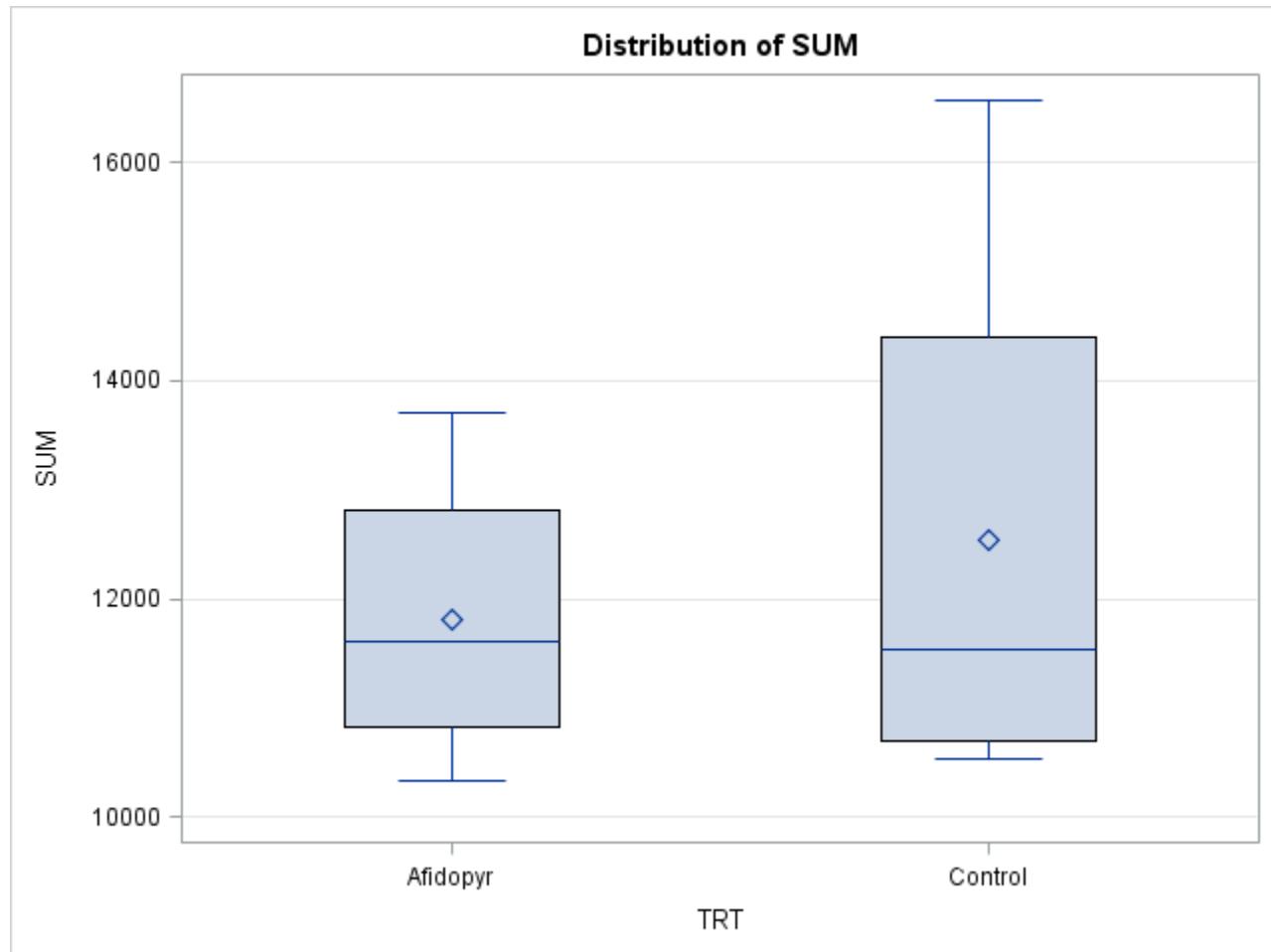
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1069453.13	1069453.13	0.22	0.6565
<b>Error</b>	6	29324668.75	4887444.79		
<b>Corrected Total</b>	7	30394121.88			

R-Square	Coeff Var	Root MSE	SUM Mean
0.035186	18.15164	2210.757	12179.38

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1069453.125	1069453.125	0.22	0.6565





**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-3**

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## ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	4887445
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	3825.1

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	12545	4	Control
A			
A	11814	4	Afidopyr

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**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=4**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

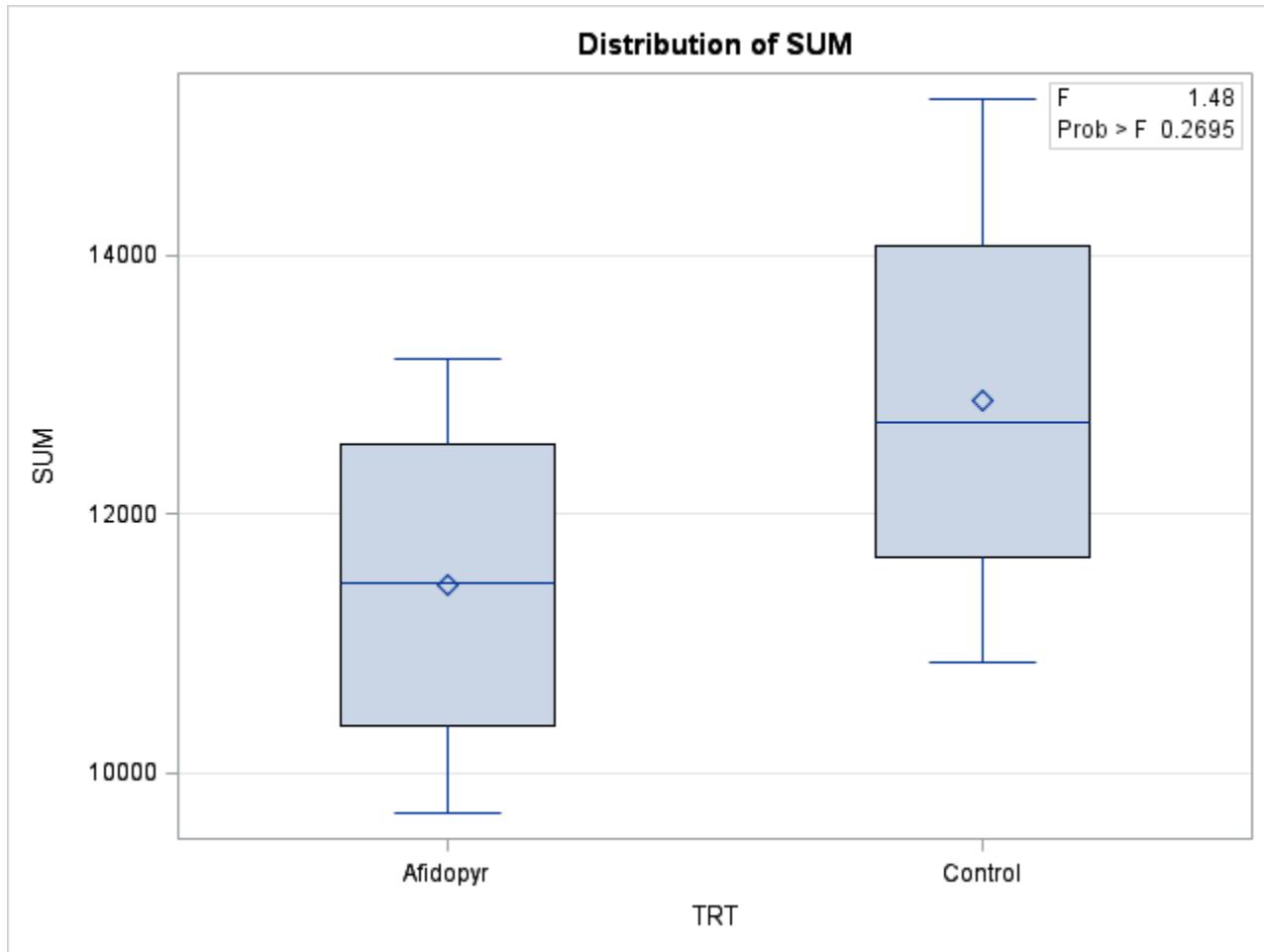
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****Dependent Variable: SUM****DAT=4**

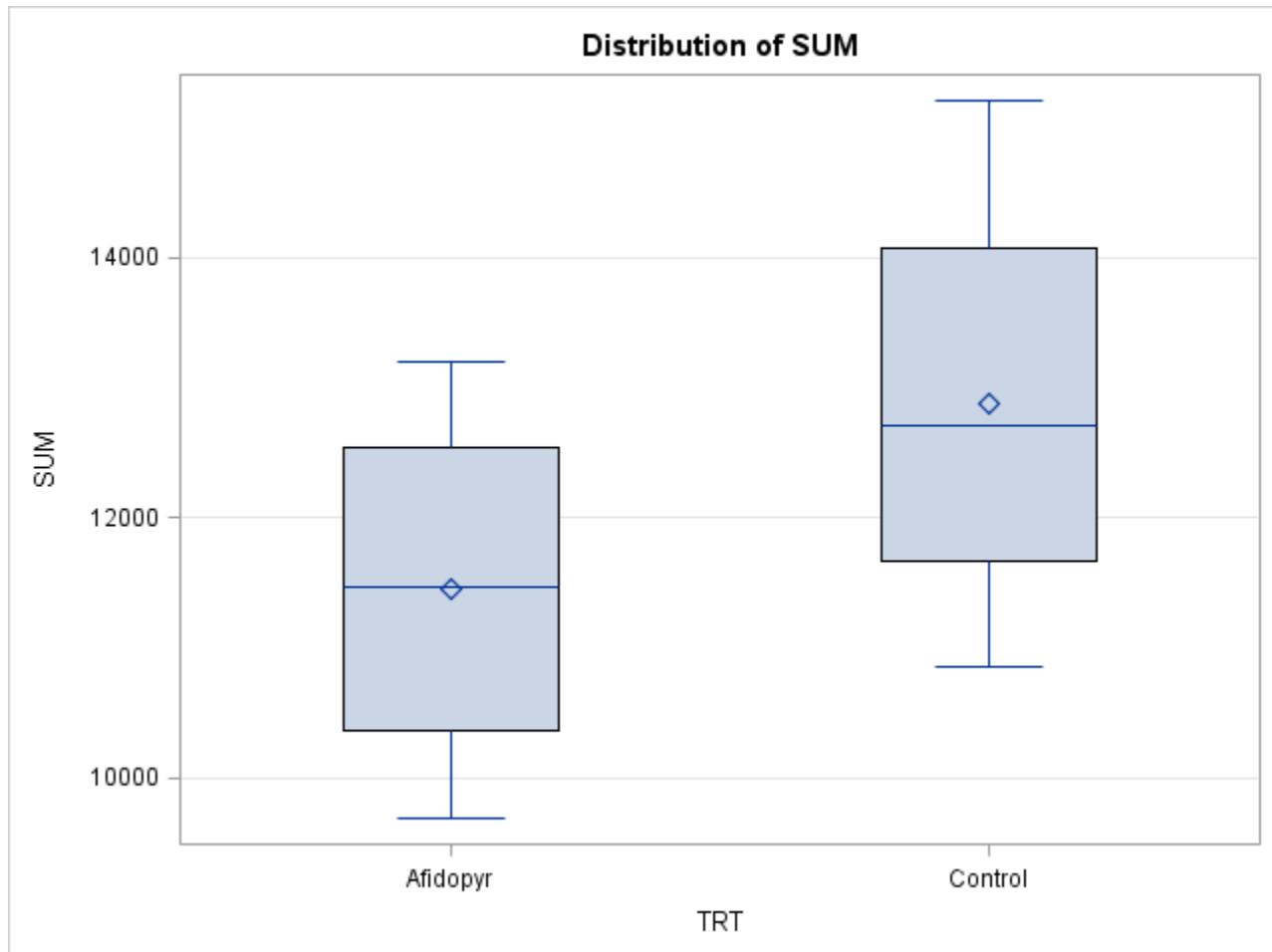
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	3997378.13	3997378.13	1.48	0.2695
<b>Error</b>	6	16210268.75	2701711.46		
<b>Corrected Total</b>	7	20207646.88			

R-Square	Coeff Var	Root MSE	SUM Mean
0.197815	13.51370	1643.688	12163.13

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	3997378.125	3997378.125	1.48	0.2695





**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=4**

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## ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	2701711
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	2844

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	12870	4	Control
A			
A	11456	4	Afidopyr

---

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=11**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

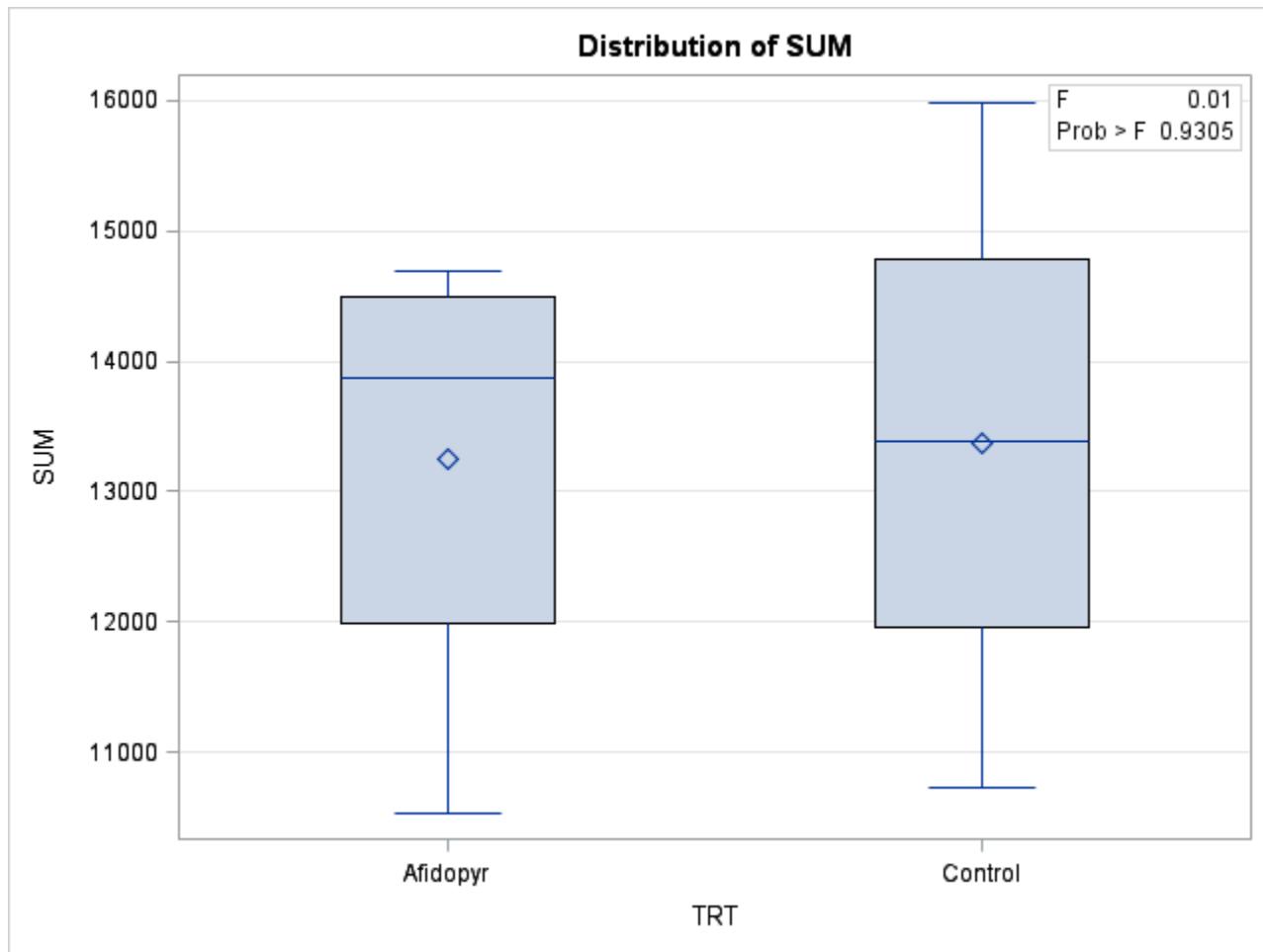
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****Dependent Variable: SUM****DAT=11**

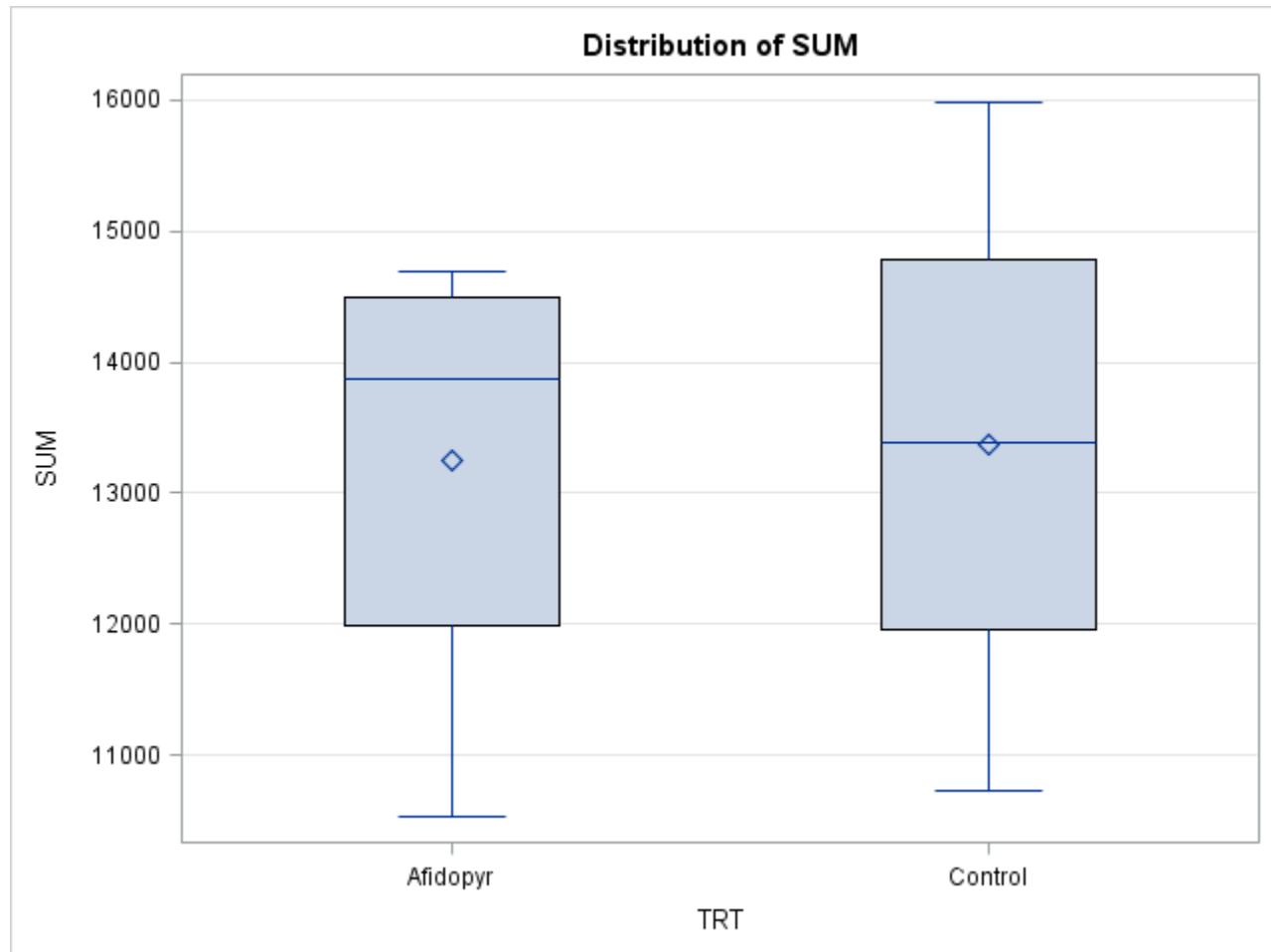
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	33800.00	33800.00	0.01	0.9305
Error	6	24553587.50	4092264.58		
Corrected Total	7	24587387.50			

R-Square	Coeff Var	Root MSE	SUM Mean
0.001375	15.20003	2022.935	13308.75

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	33800.00000	33800.00000	0.01	0.9305





**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=11**

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## ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	4092265
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	3500.1

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	13374	4	Control
A			
A	13244	4	Afidopyr

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**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=18**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

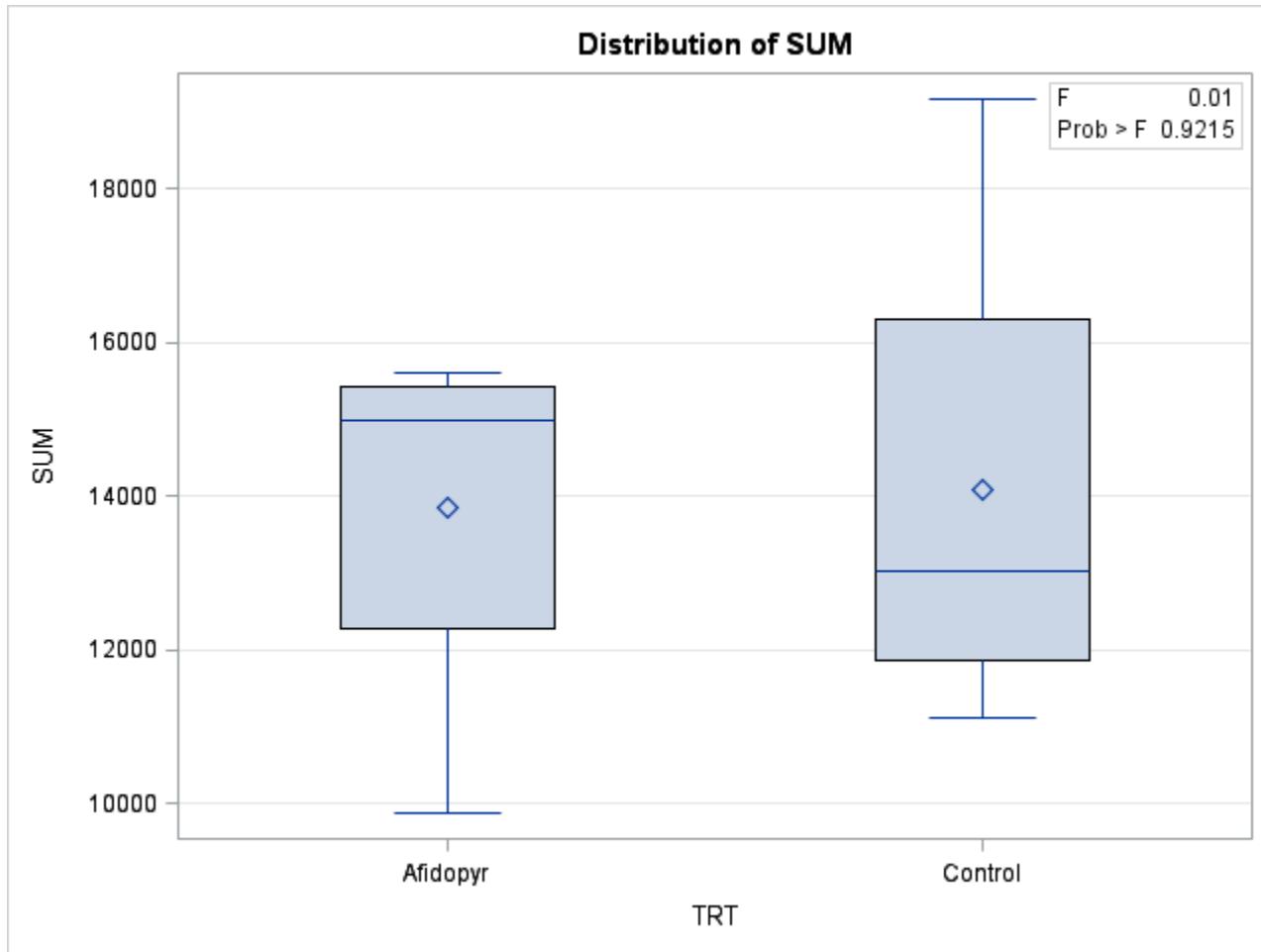
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****Dependent Variable: SUM****DAT=18**

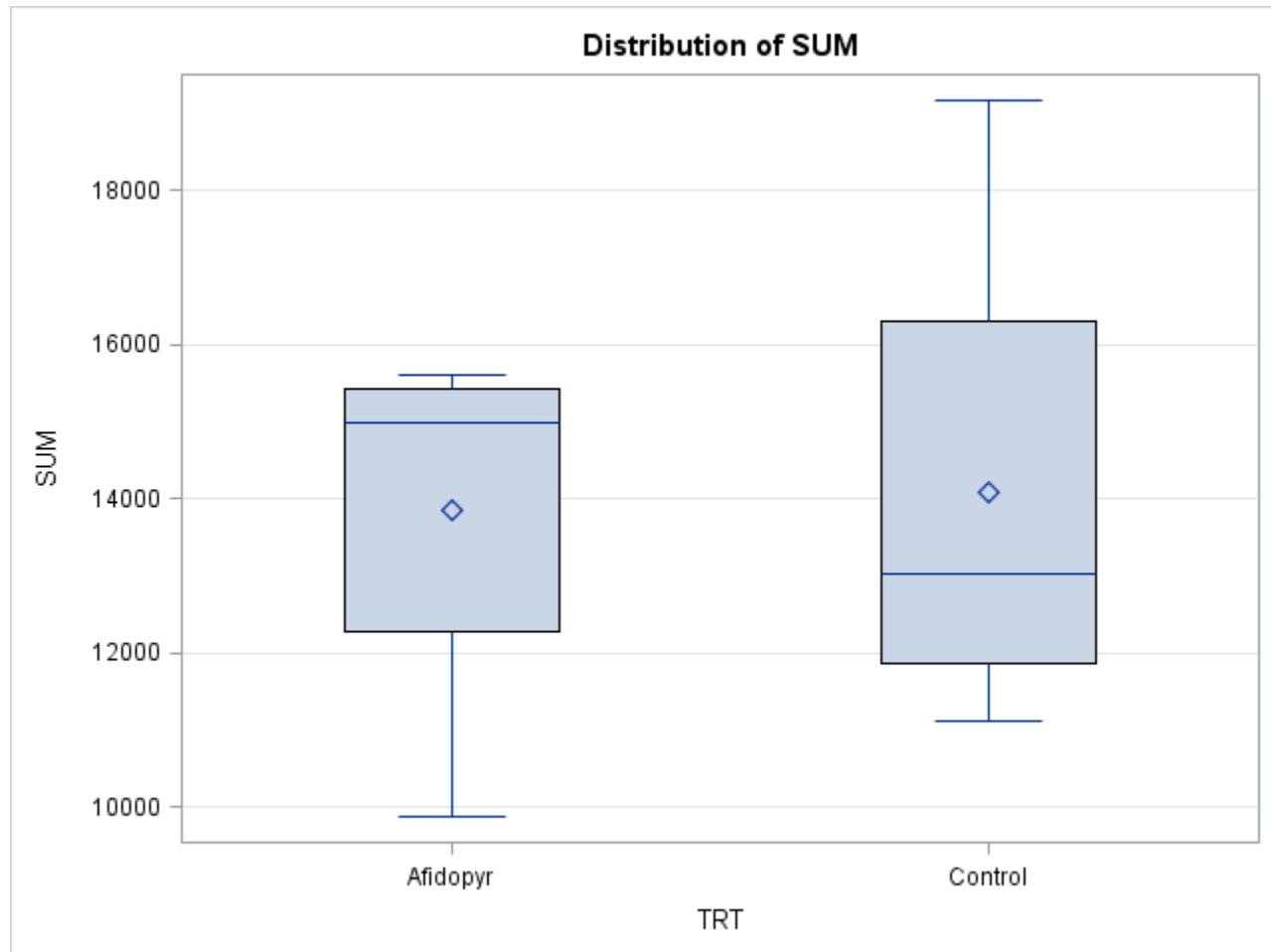
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	103512.50	103512.50	0.01	0.9215
<b>Error</b>	6	58860587.50	9810097.92		
<b>Corrected Total</b>	7	58964100.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.001756	22.41222	3132.108	13975.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	103512.5000	103512.5000	0.01	0.9215





**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=18**

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## ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	9810098
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	5419.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	14089	4	Control
A			
A	13861	4	Afidopyr

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**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=25**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

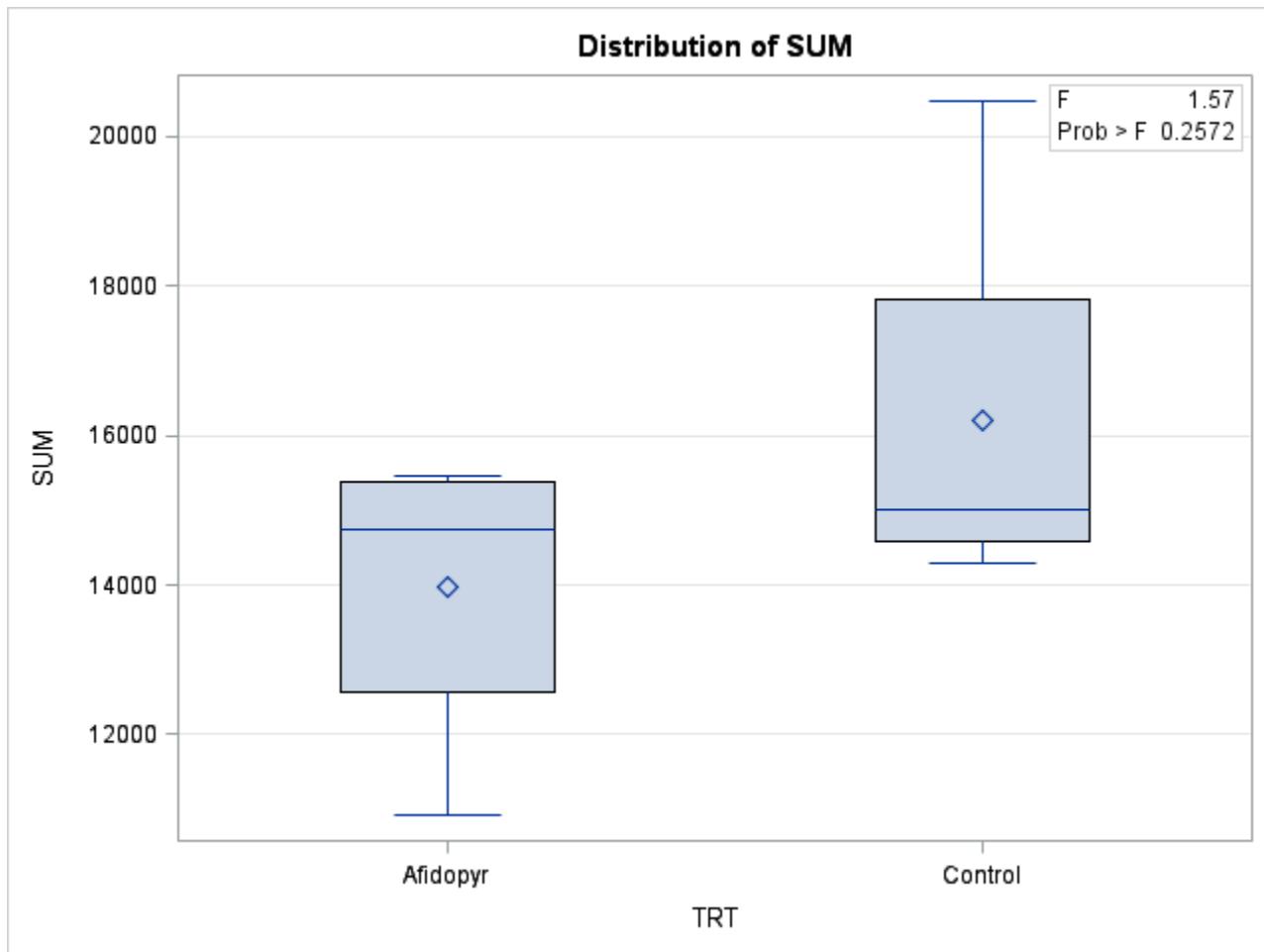
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****Dependent Variable: SUM****DAT=25**

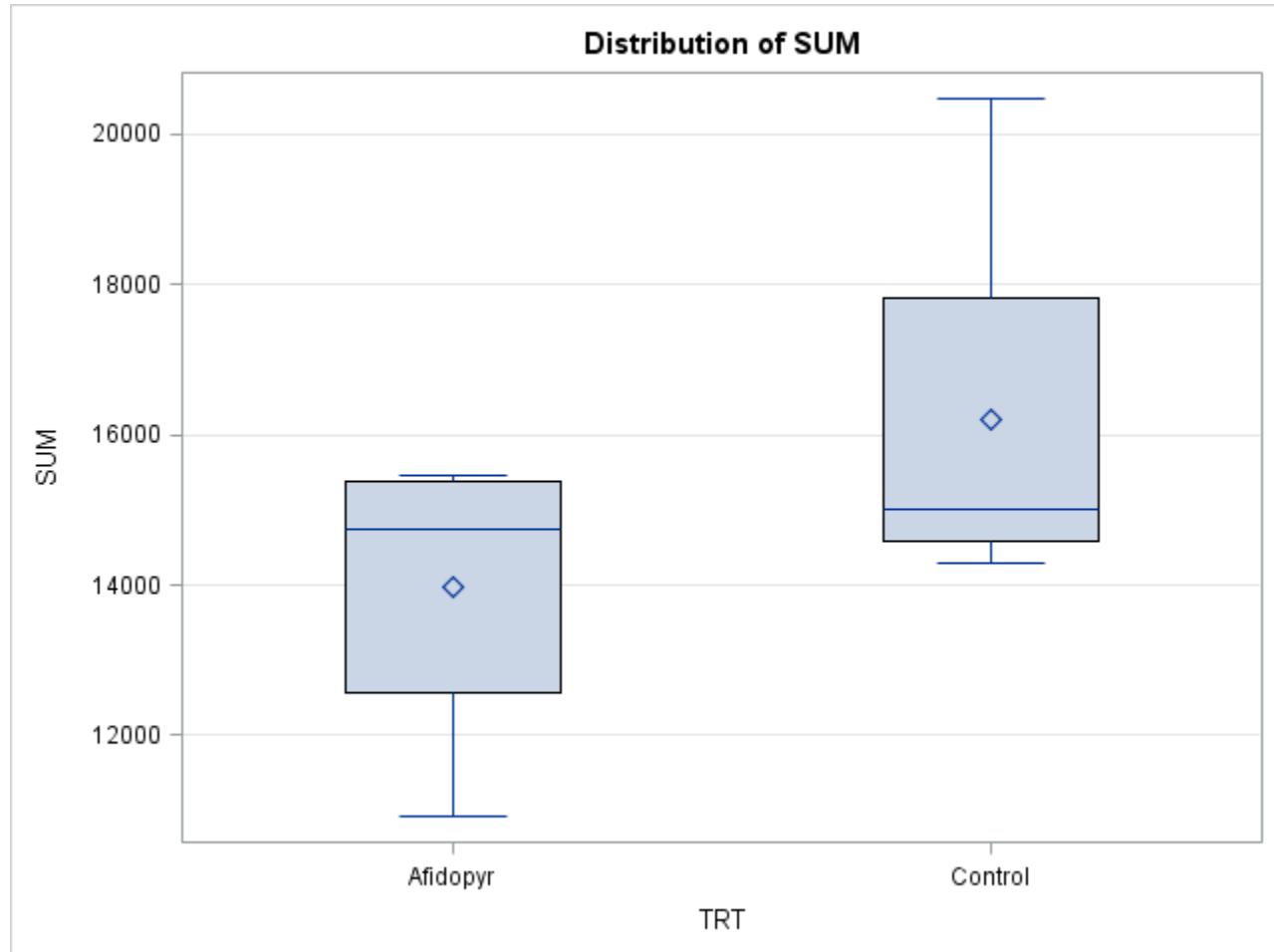
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9934653.13	9934653.13	1.57	0.2572
Error	6	38032468.75	6338744.79		
Corrected Total	7	47967121.88			

R-Square	Coeff Var	Root MSE	SUM Mean
0.207114	16.68516	2517.686	15089.38

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	9934653.125	9934653.125	1.57	0.2572





**ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=25**

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## ANOVA FOR TOTAL NUMBER OF BEES BY DAYS AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	6338745
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	4356.2

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	16204	4	Control
A			
A	13975	4	Afidopyr

**SUMMARY OF TOTAL NUMBER OF DEAD ADULT BEES BY TREATMENT AND  
NUMBER OF DAYS AFTER TREATMENT (DAT)**

<b>Obs</b>	<b>TRT</b>	<b>DAT</b>	<b>_TYPE_</b>	<b>_FREQ_</b>	<b>MEAN</b>	<b>STD</b>
<b>1</b>	Afidopyr	-1		0	4	6.0000
<b>2</b>	Afidopyr	-2		0	4	15.0000
<b>3</b>	Afidopyr	-3		0	4	11.7500
<b>4</b>	Afidopyr	0aa1		0	4	0.5000
<b>5</b>	Afidopyr	0aa2		0	4	7.7500
<b>6</b>	Afidopyr	0ba		0	4	9.5000
<b>7</b>	Afidopyr	1		0	4	18.7500
<b>8</b>	Afidopyr	2		0	4	22.5000
<b>9</b>	Afidopyr	3		0	4	19.2500
<b>10</b>	Afidopyr	4		0	4	9.2500
<b>11</b>	Afidopyr	5		0	4	15.0000
<b>12</b>	Afidopyr	6		0	4	20.5000
<b>13</b>	Afidopyr	7		0	4	11.7500
<b>14</b>	Control	-1		0	4	5.5000
<b>15</b>	Control	-2		0	4	9.2500
<b>16</b>	Control	-3		0	4	7.2500
<b>17</b>	Control	0aa1		0	4	0.0000
<b>18</b>	Control	0aa2		0	3	2.3333
<b>19</b>	Control	0ba		0	4	5.5000
<b>20</b>	Control	1		0	4	3.7500
<b>21</b>	Control	2		0	4	7.5000
<b>22</b>	Control	3		0	4	3.7500
<b>23</b>	Control	4		0	4	6.2500
<b>24</b>	Control	5		0	4	9.7500
<b>25</b>	Control	6		0	4	12.0000
<b>26</b>	Control	7		0	4	9.0000
<b>27</b>	Control	Oaa2		0	1	1.0000

**SUMMARY OF TOTAL NUMBER OF DEAD BEES (ADULTS PLUS PUPAE) BY TREATMENT AND NUMBER OF DAYS AFTER TREATMENT (DAT)**

<b>Obs</b>	<b>TRT</b>	<b>DAT</b>	<b>_TYPE_</b>	<b>_FREQ_</b>	<b>MEAN</b>	<b>STD</b>
<b>1</b>	Afidopyr	-1		0	4	6.5000
<b>2</b>	Afidopyr	-2		0	4	15.5000
<b>3</b>	Afidopyr	-3		0	4	11.7500
<b>4</b>	Afidopyr	0aa1		0	4	0.5000
<b>5</b>	Afidopyr	0aa2		0	4	7.7500
<b>6</b>	Afidopyr	0ba		0	4	10.0000
<b>7</b>	Afidopyr	1		0	4	19.2500
<b>8</b>	Afidopyr	2		0	4	23.0000
<b>9</b>	Afidopyr	3		0	4	19.2500
<b>10</b>	Afidopyr	4		0	4	9.2500
<b>11</b>	Afidopyr	5		0	4	15.0000
<b>12</b>	Afidopyr	6		0	4	21.2500
<b>13</b>	Afidopyr	7		0	4	11.7500
<b>14</b>	Control	-1		0	4	5.5000
<b>15</b>	Control	-2		0	4	10.0000
<b>16</b>	Control	-3		0	4	8.0000
<b>17</b>	Control	0aa1		0	4	0.0000
<b>18</b>	Control	0aa2		0	3	2.3333
<b>19</b>	Control	0ba		0	4	7.0000
<b>20</b>	Control	1		0	4	4.2500
<b>21</b>	Control	2		0	4	7.5000
<b>22</b>	Control	3		0	4	4.0000
<b>23</b>	Control	4		0	4	6.2500
<b>24</b>	Control	5		0	4	9.7500
<b>25</b>	Control	6		0	4	12.2500
<b>26</b>	Control	7		0	4	9.0000
<b>27</b>	Control	Oaa2		0	1	1.0000

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

DAT=-1

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

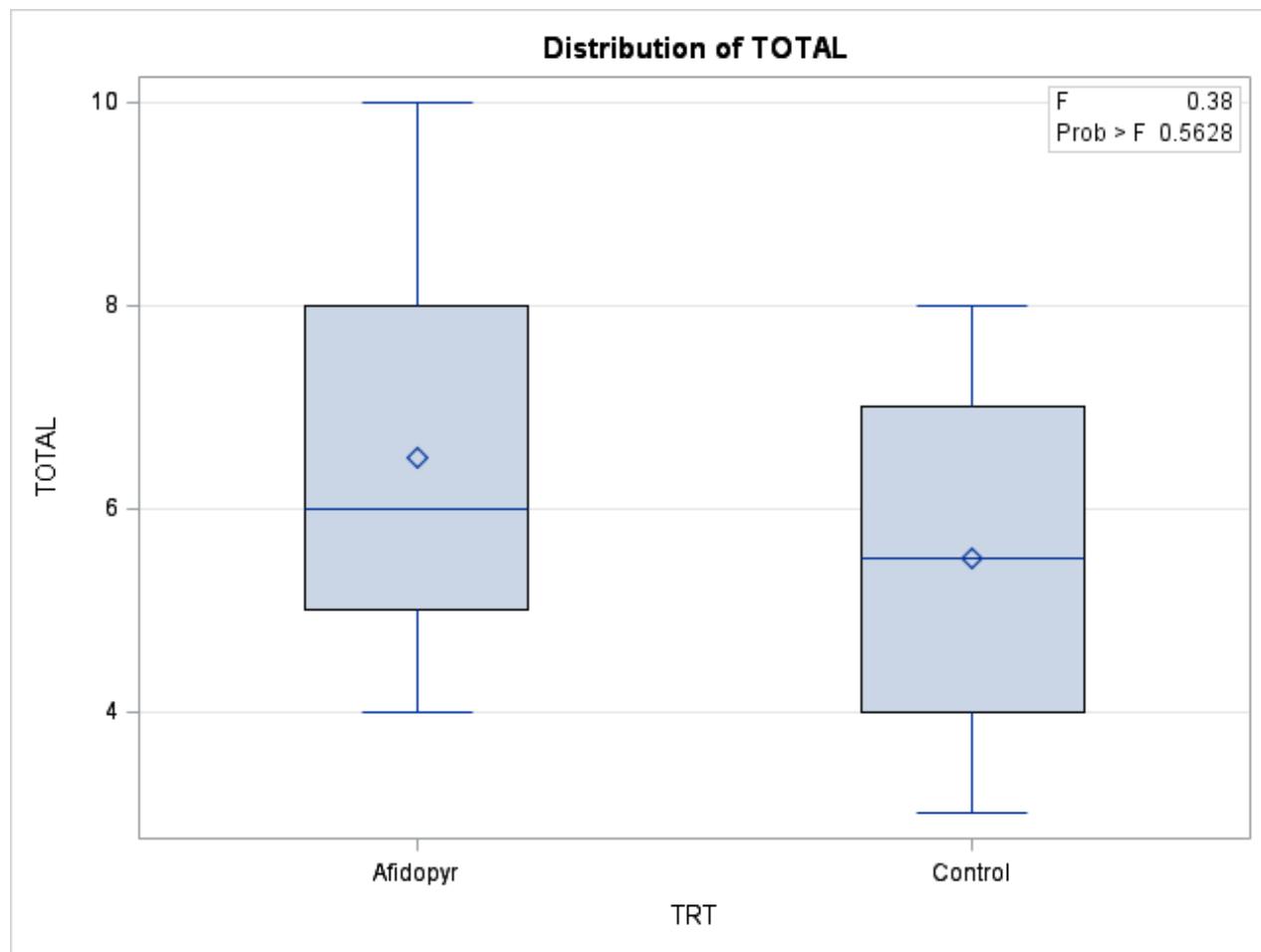
Dependent Variable: TOTAL

DAT=-1

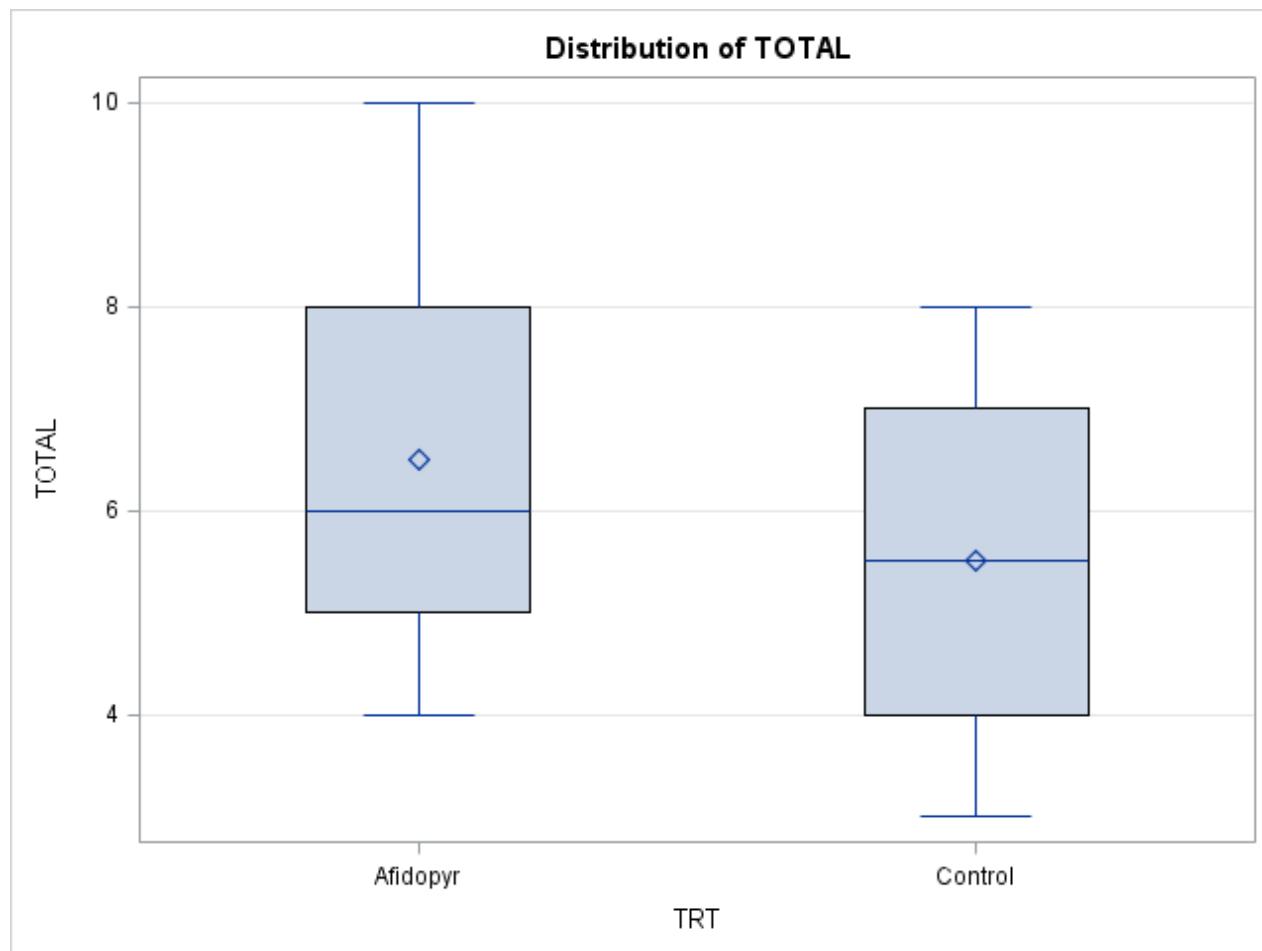
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.00000000	2.00000000	0.38	0.5628
Error	6	32.00000000	5.33333333		
Corrected Total	7	34.00000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.058824	38.49002	2.309401	6.000000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	2.00000000	2.00000000	0.38	0.5628





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-1**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=-1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	5.333333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	3.9958

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	6.500	4	Afidopyr
A			
A	5.500	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-2**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

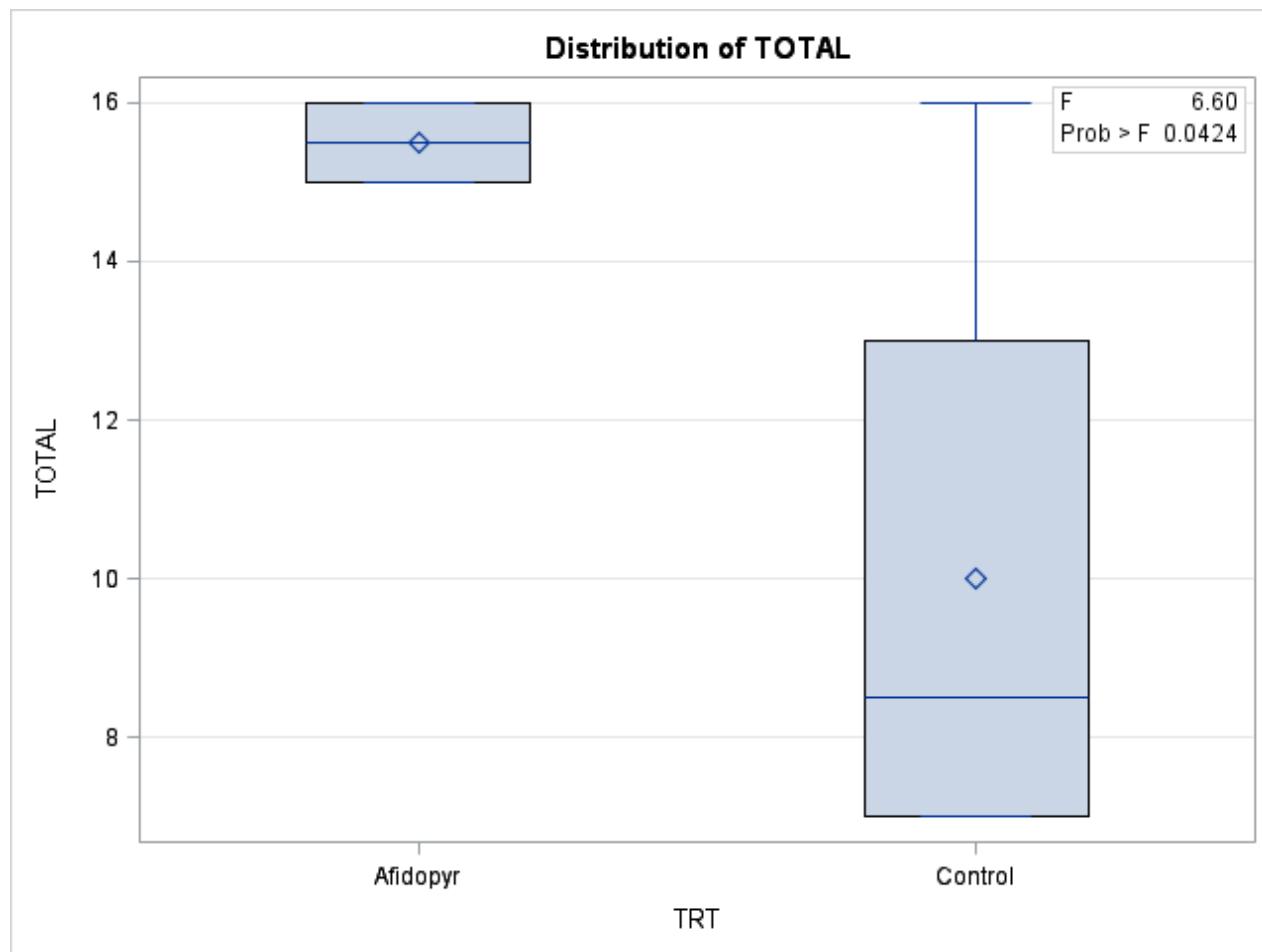
Dependent Variable: TOTAL

DAT=-2

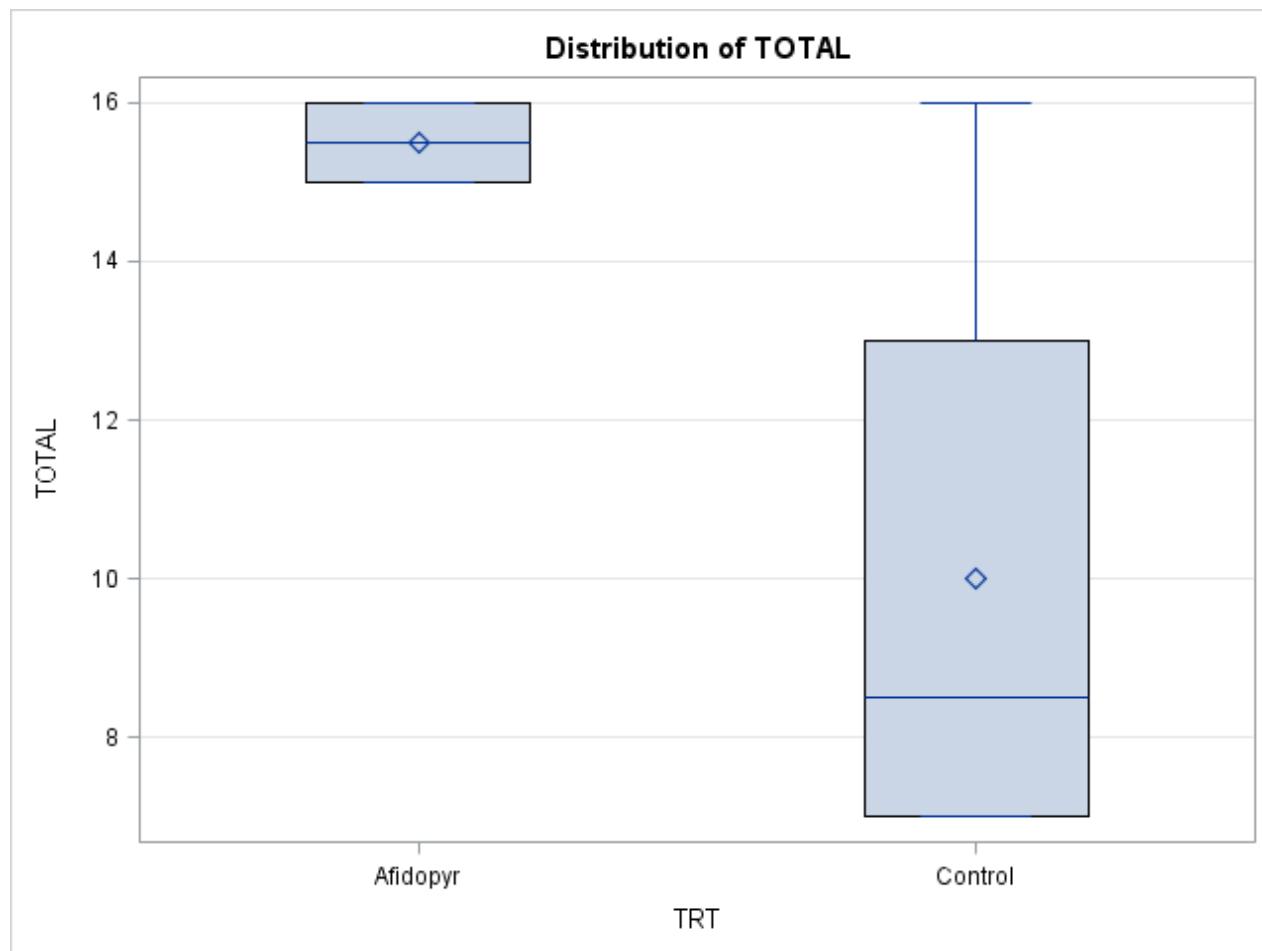
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	60.5000000	60.5000000	6.60	0.0424
Error	6	55.0000000	9.1666667		
Corrected Total	7	115.5000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.523810	23.74628	3.027650	12.75000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	60.50000000	60.50000000	6.60	0.0424





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-2**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=-2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	9.166667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	5.2385

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	15.500	4	Afidopyr
B	10.000	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-3**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

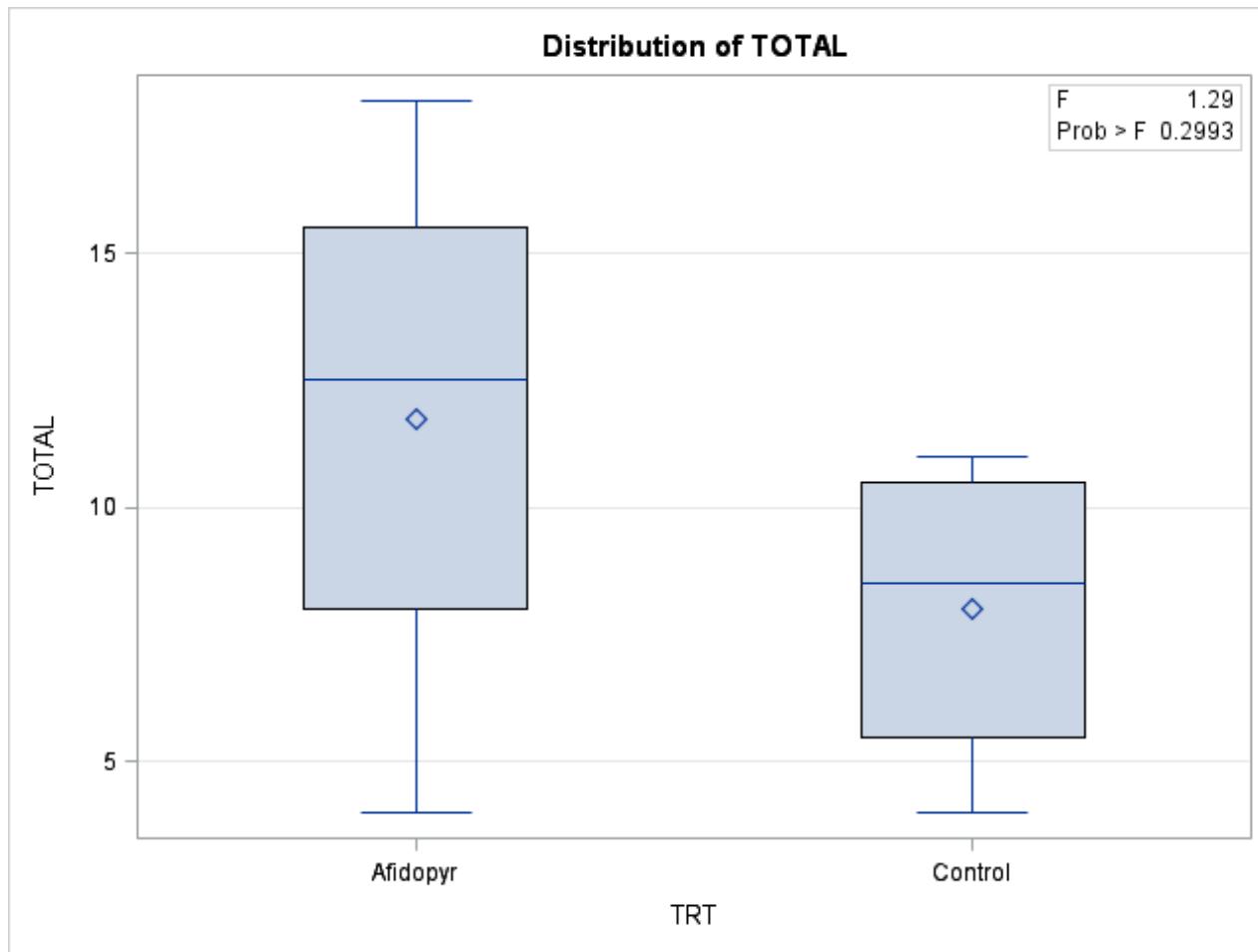
Dependent Variable: TOTAL

DAT=-3

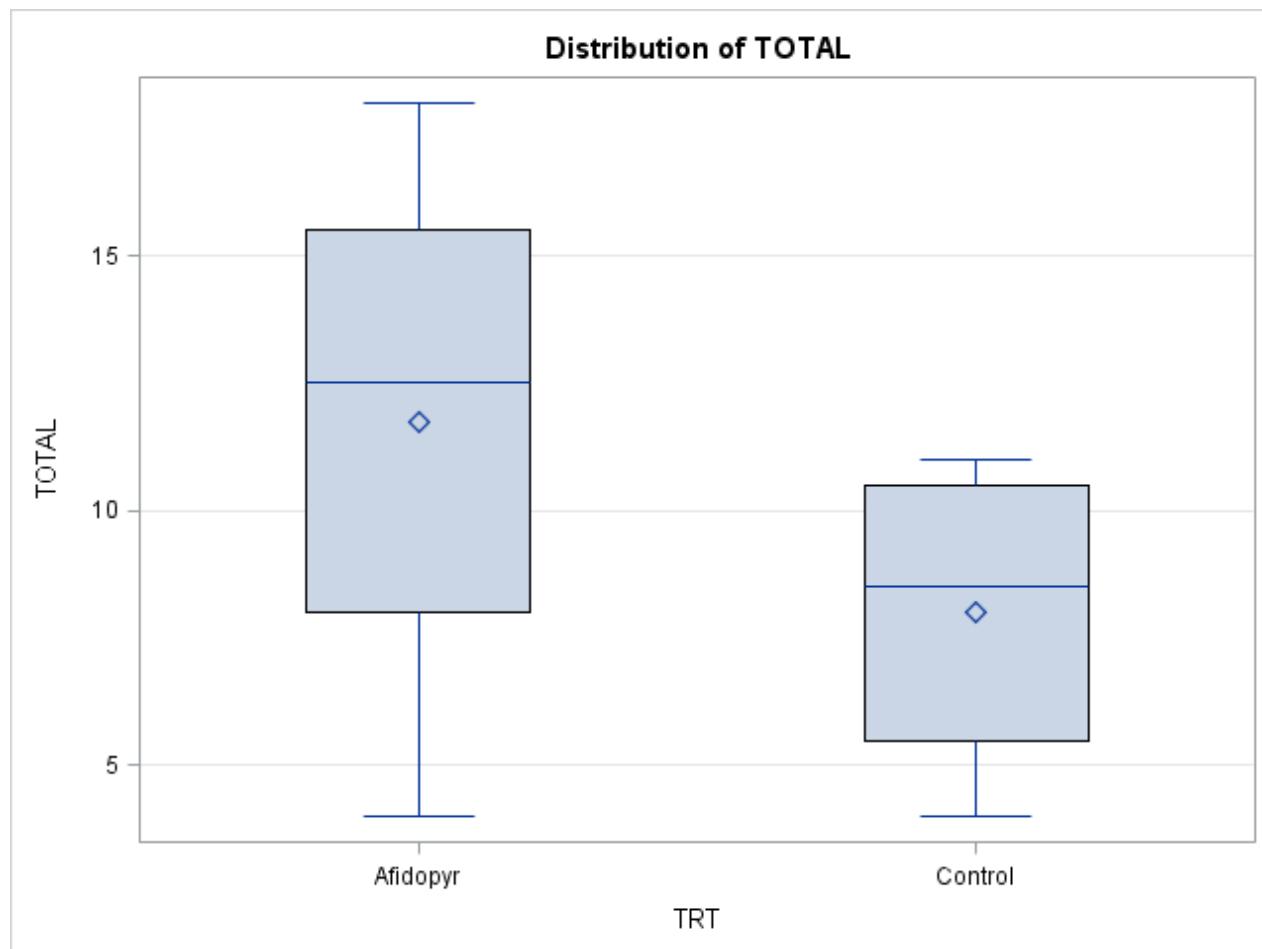
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	28.1250000	28.1250000	1.29	0.2993
Error	6	130.7500000	21.7916667		
Corrected Total	7	158.8750000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.177026	47.27245	4.668155	9.875000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	28.12500000	28.12500000	1.29	0.2993





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=-3**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	21.79167
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	8.077

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	11.750	4	Afidopyr
A			
A	8.000	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=0aa1**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

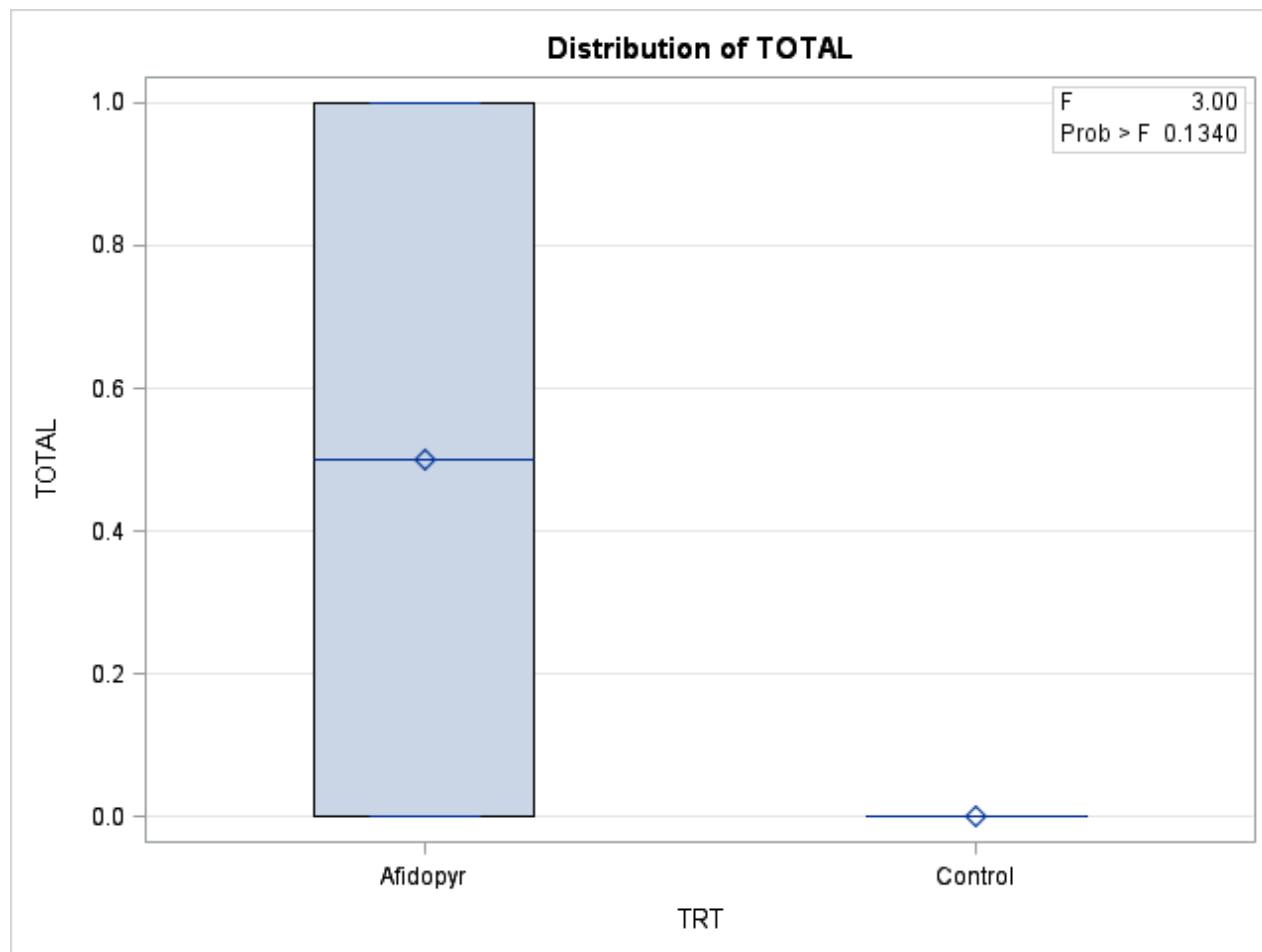
Dependent Variable: TOTAL

DAT=0aa1

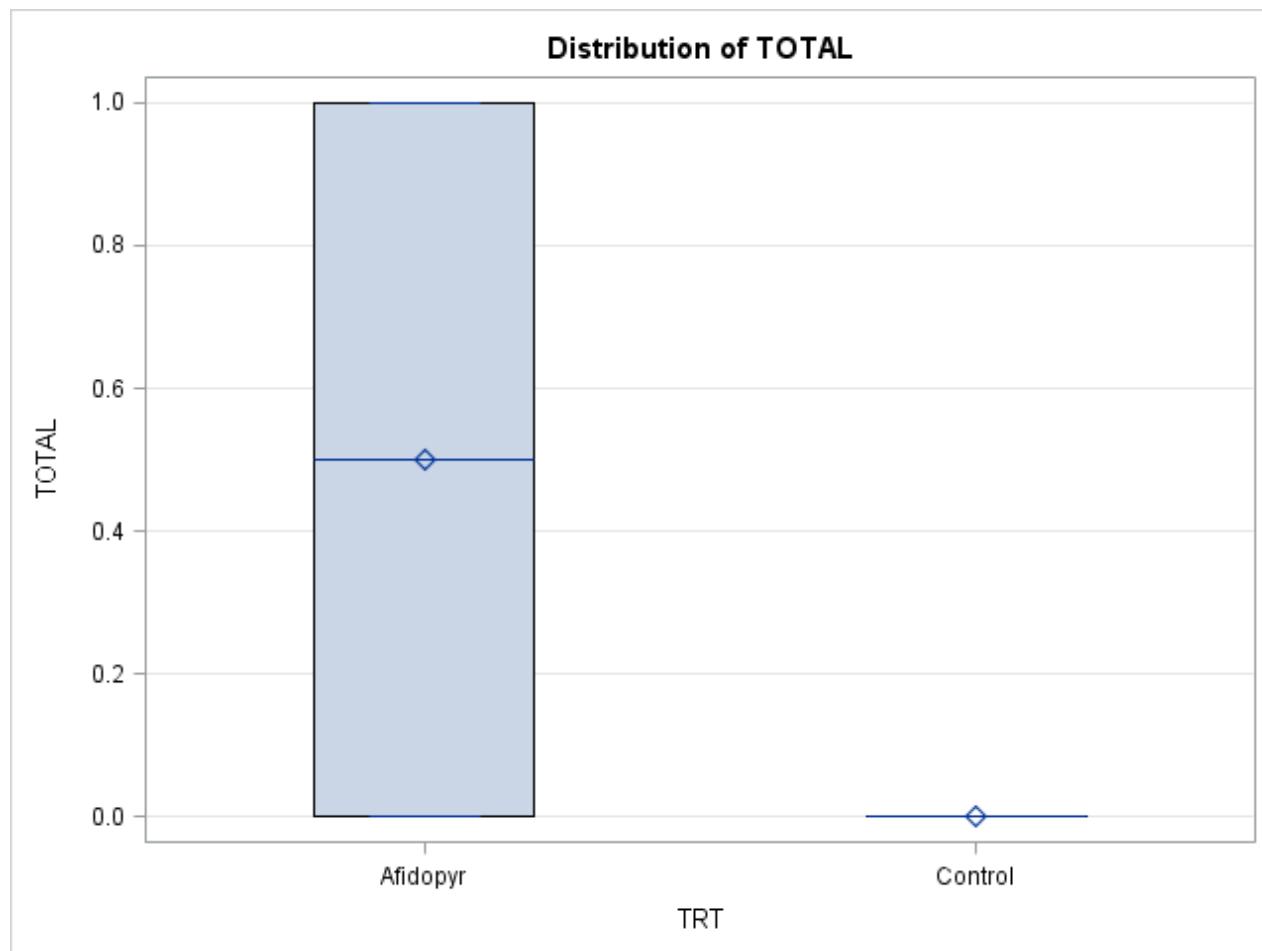
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.50000000	0.50000000	3.00	0.1340
Error	6	1.00000000	0.16666667		
Corrected Total	7	1.50000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.333333	163.2993	0.408248	0.250000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	0.50000000	0.50000000	3.00	0.1340





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=0aa1**

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## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=0aa1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	0.166667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	0.7064

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	0.5000	4	Afidopyr
A			
A	0.0000	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=0aa2**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	7
Number of Observations Used	7

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

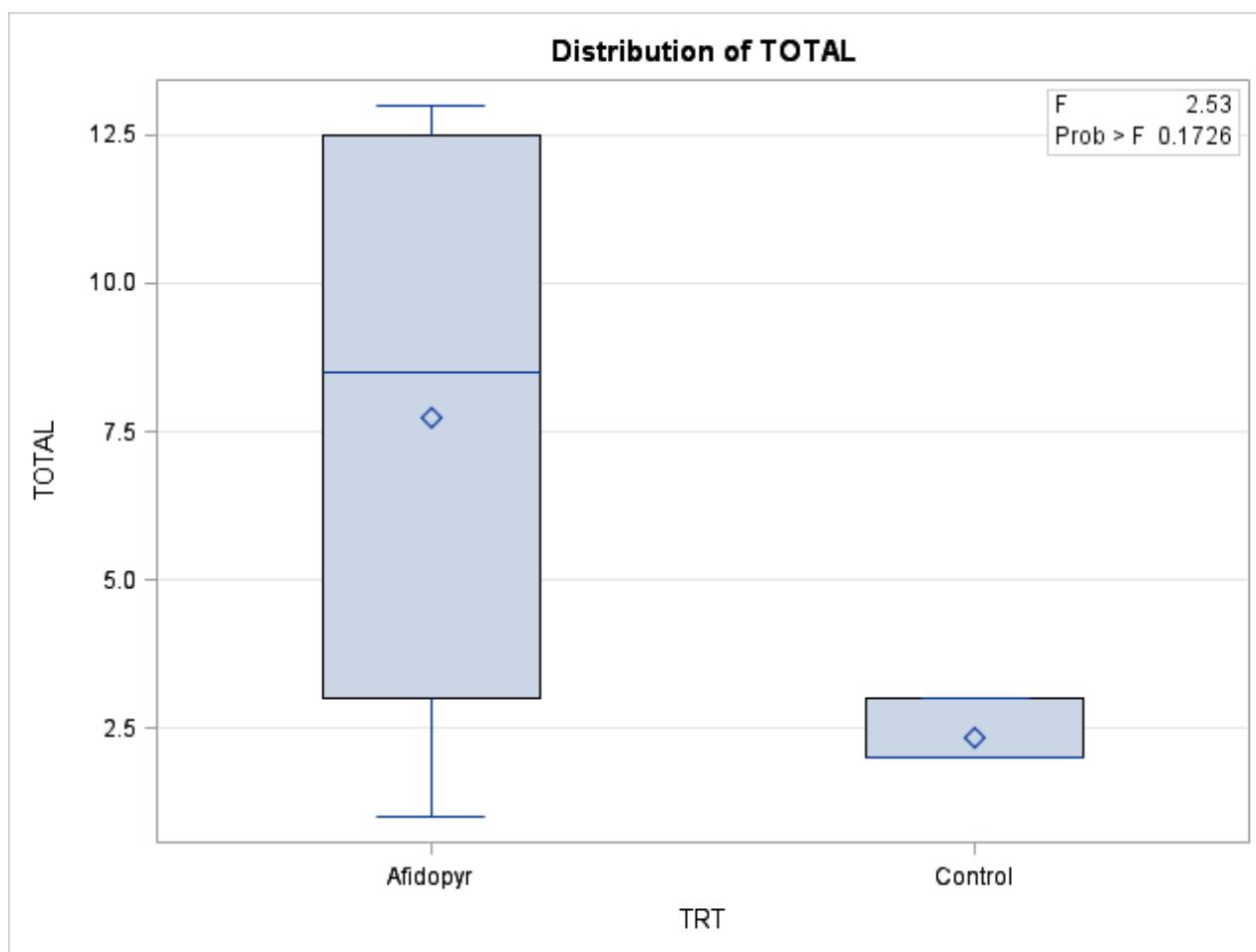
Dependent Variable: TOTAL

DAT=0aa2

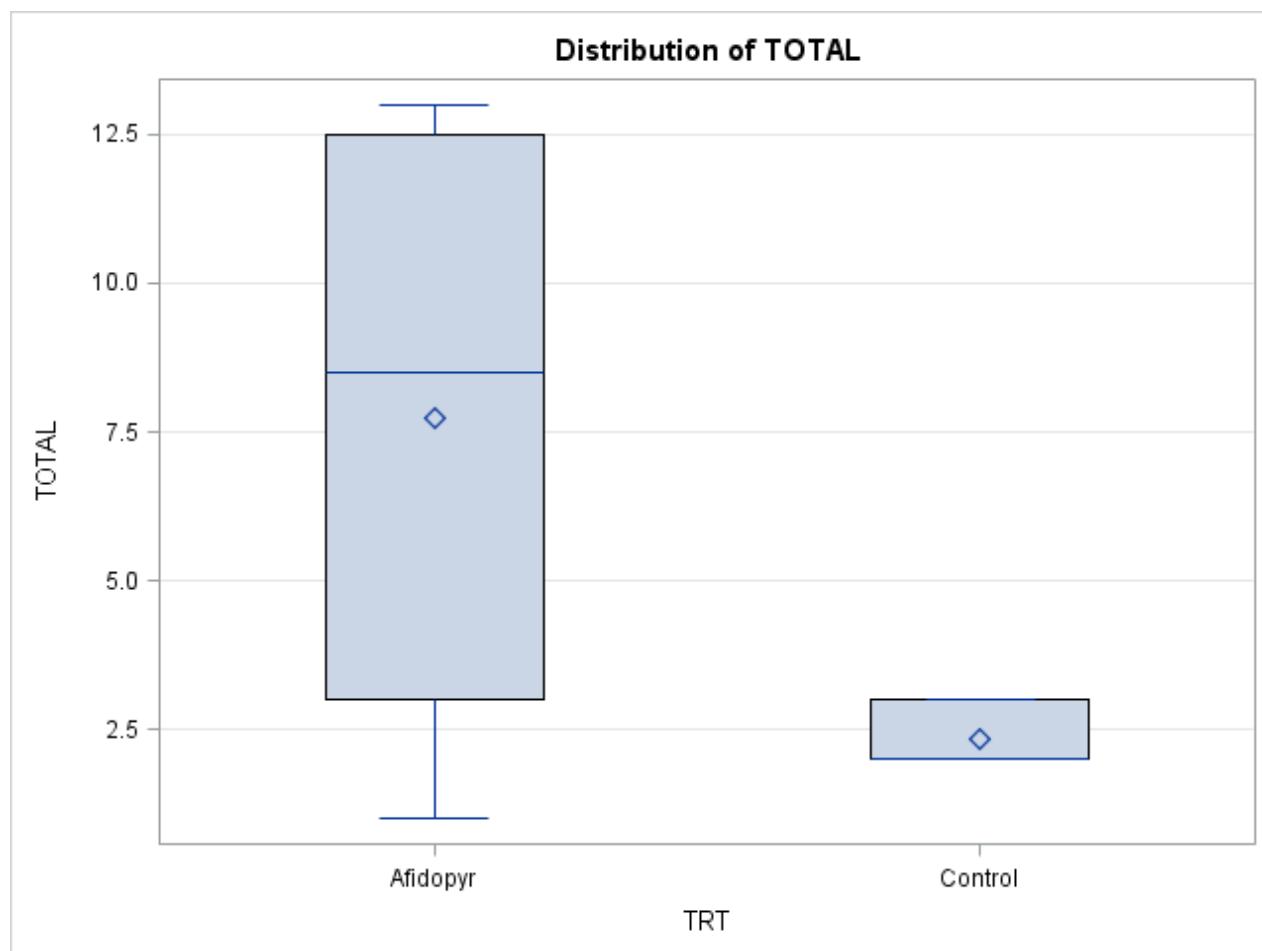
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	50.2976190	50.2976190	2.53	0.1726
Error	5	99.4166667	19.8833333		
Corrected Total	6	149.7142857			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.335957	82.14082	4.459073	5.428571

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	50.29761905	50.29761905	2.53	0.1726





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=0aa2**

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## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=0aa2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	19.88333
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	8.7546
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	7.750	4	Afidopyr
A			
A	2.333	3	Control

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

DAT=0ba

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

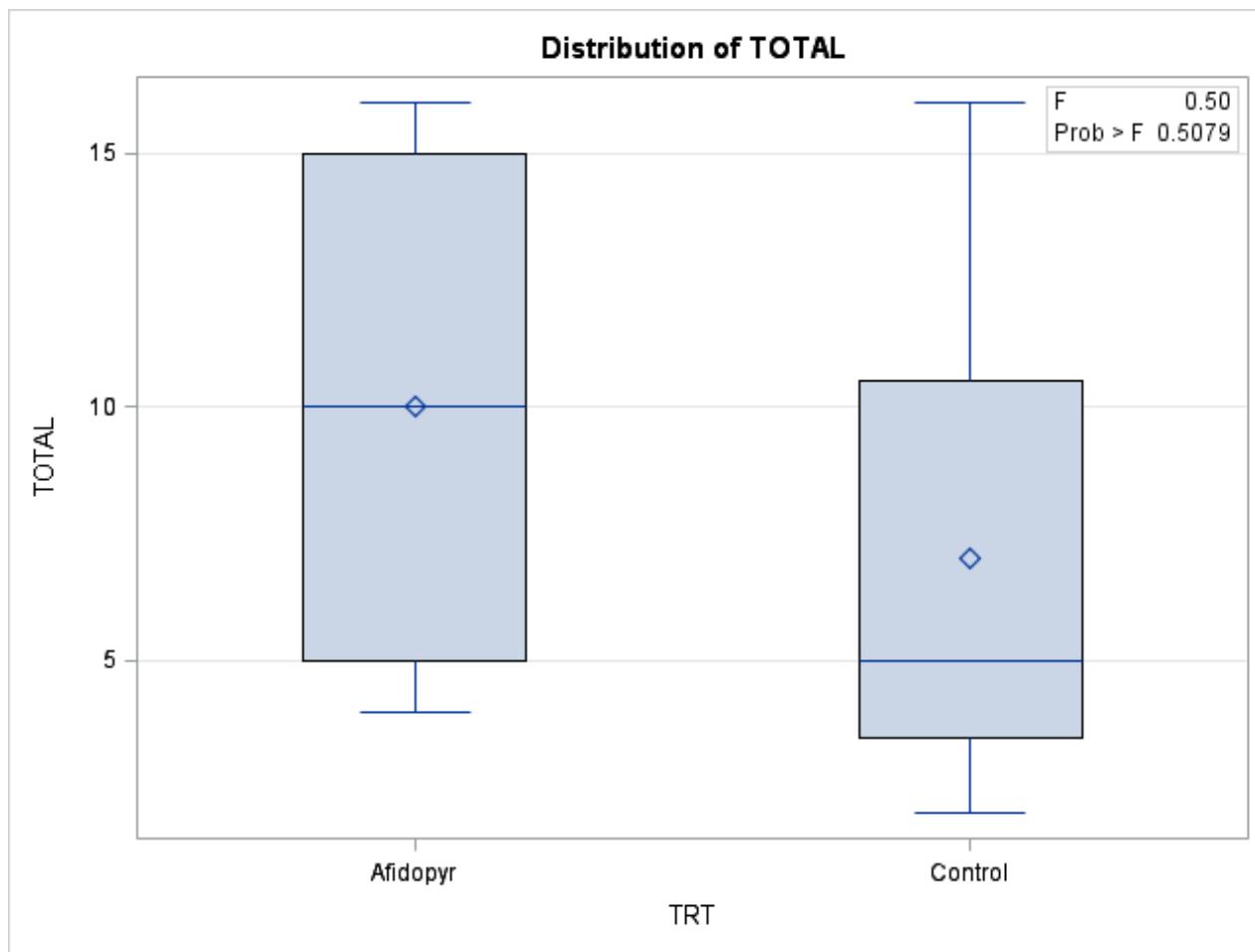
Dependent Variable: TOTAL

DAT=0ba

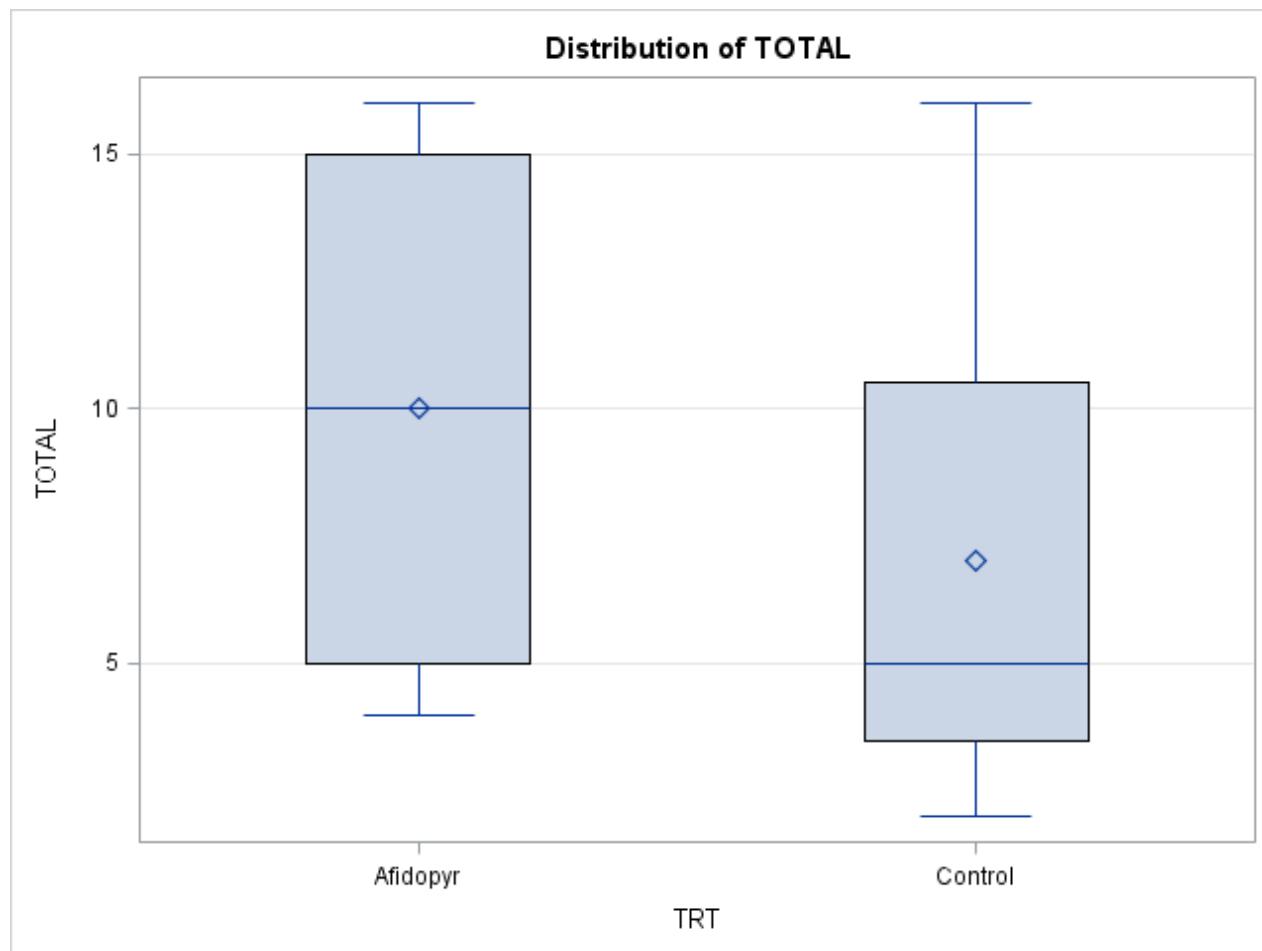
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	18.0000000	18.0000000	0.50	0.5079
Error	6	218.0000000	36.3333333		
Corrected Total	7	236.0000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.076271	70.91428	6.027714	8.500000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	18.0000000	18.0000000	0.50	0.5079





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=0ba**

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## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=0ba

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	36.33333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	10.429

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	10.000	4	Afidopyr
A			
A	7.000	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=1**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

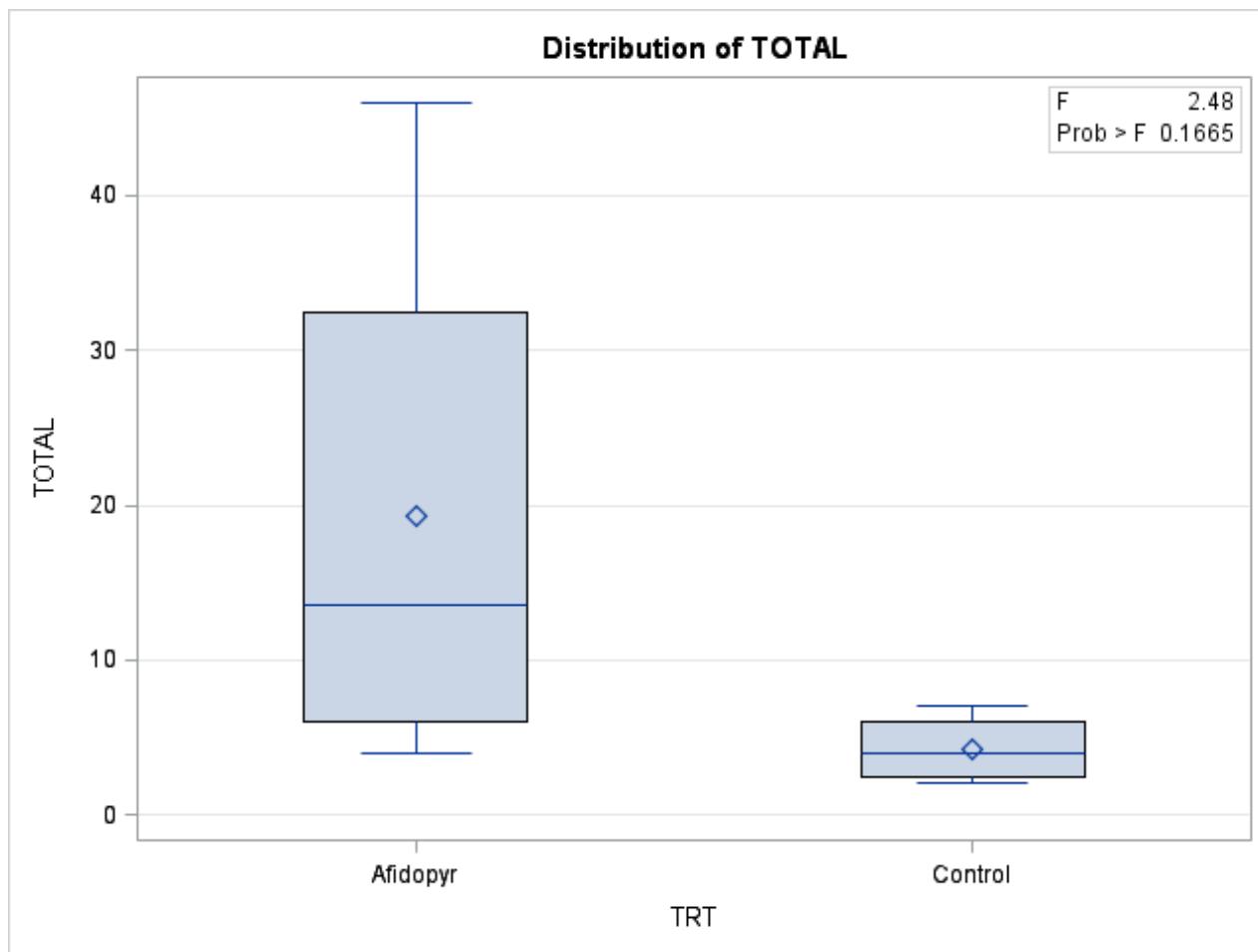
Dependent Variable: TOTAL

DAT=1

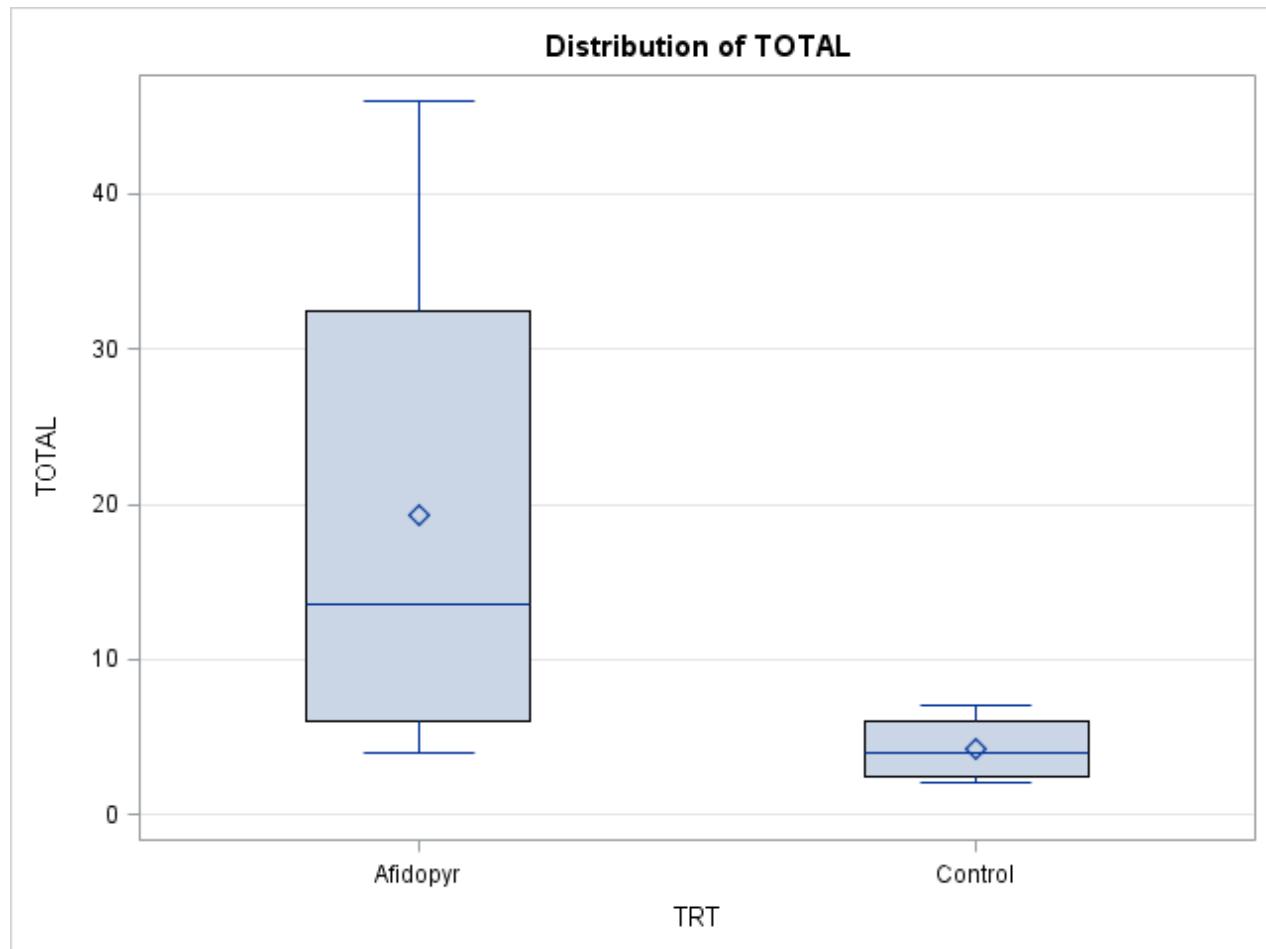
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	450.000000	450.000000	2.48	0.1665
Error	6	1089.500000	181.583333		
Corrected Total	7	1539.500000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.292303	114.6833	13.47529	11.75000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	450.000000	450.000000	2.48	0.1665





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=1**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	181.5833
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	23.315

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	19.250	4	Afidopyr
A			
A	4.250	4	Control

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

DAT=2

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

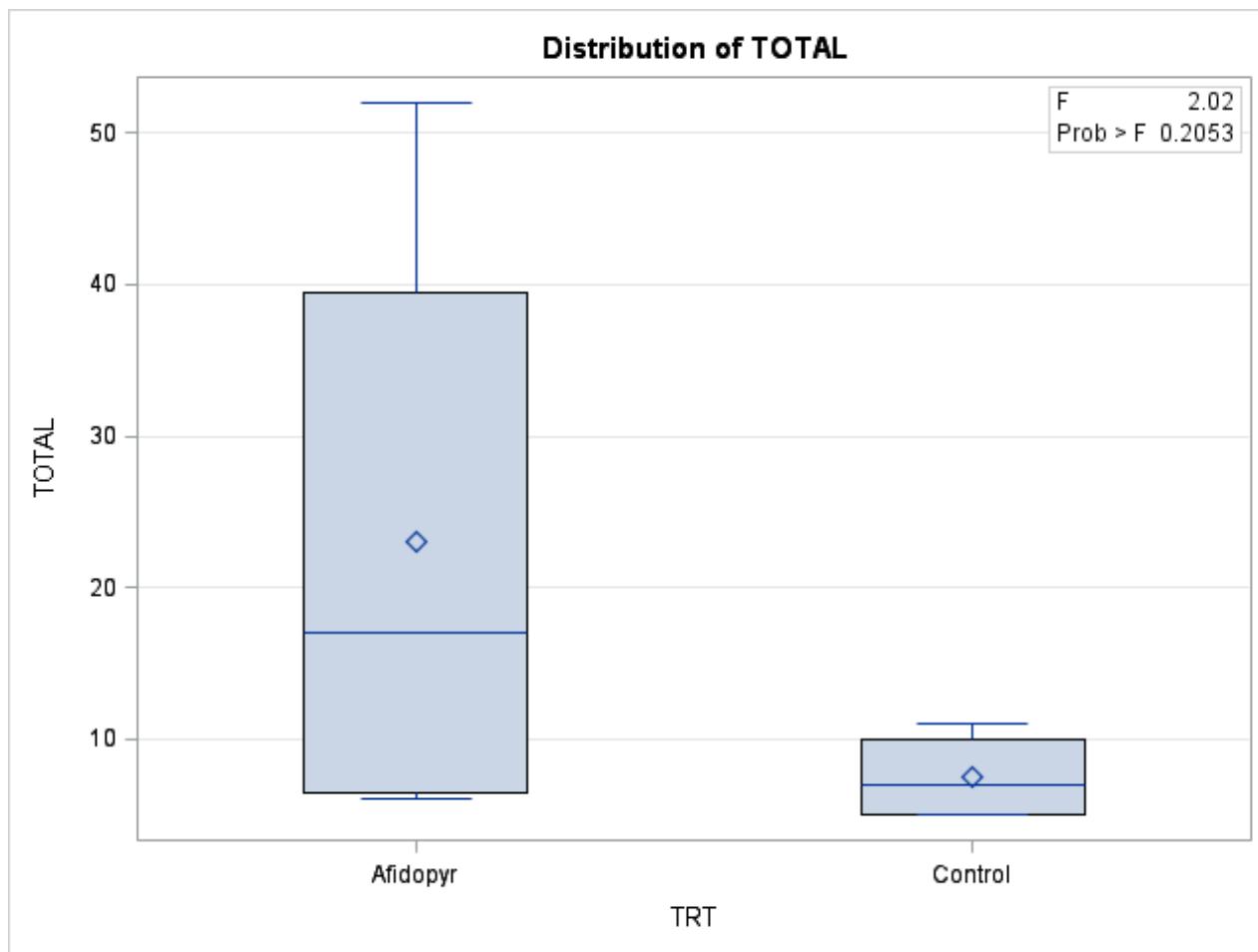
Dependent Variable: TOTAL

DAT=2

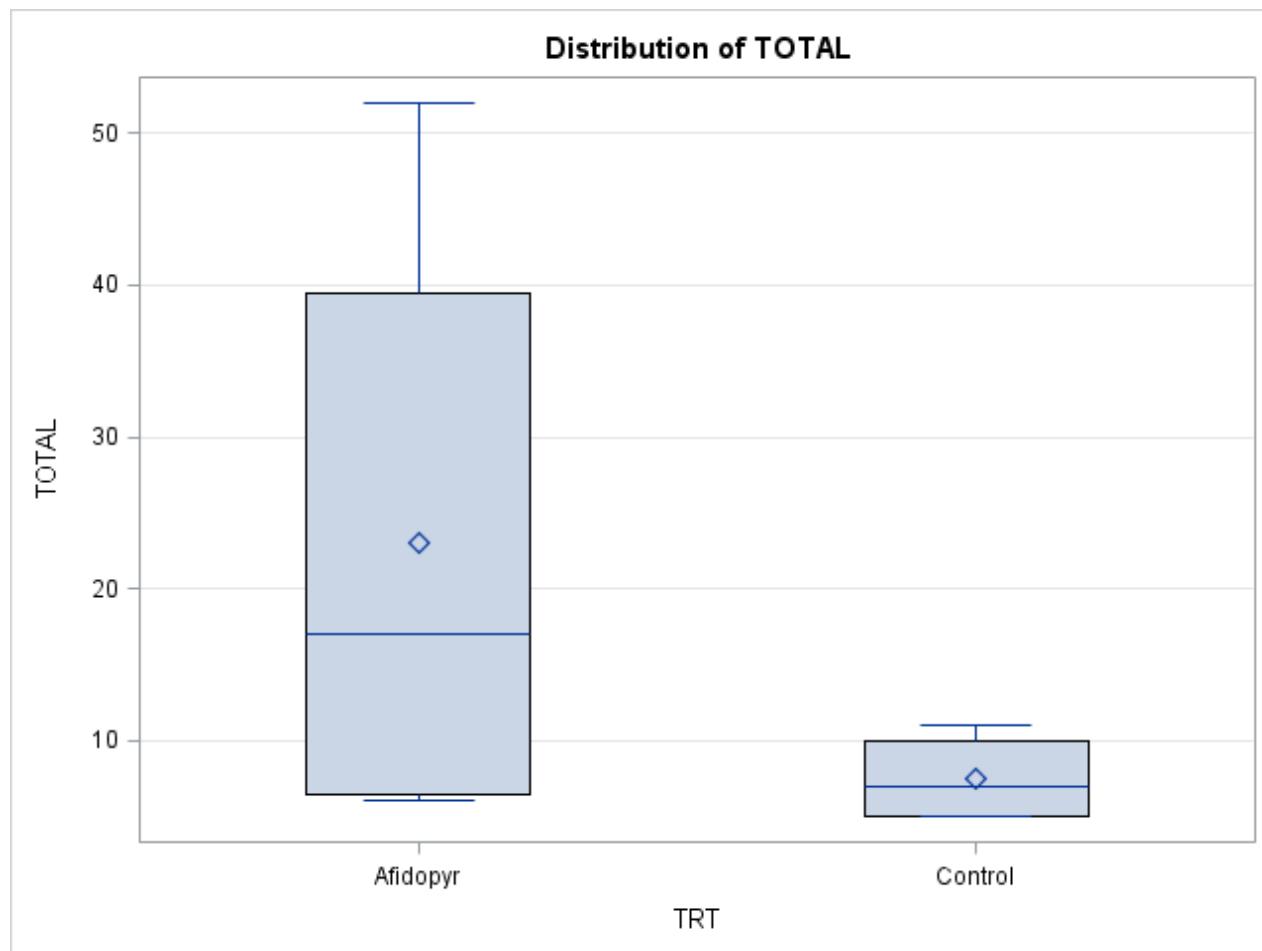
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	480.500000	480.500000	2.02	0.2053
Error	6	1429.000000	238.166667		
Corrected Total	7	1909.500000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.251637	101.1977	15.43265	15.25000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	480.500000	480.500000	2.02	0.2053





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=2**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	238.1667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	26.702

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	23.00	4	Afidopyr
A			
A	7.50	4	Control

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

DAT=3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

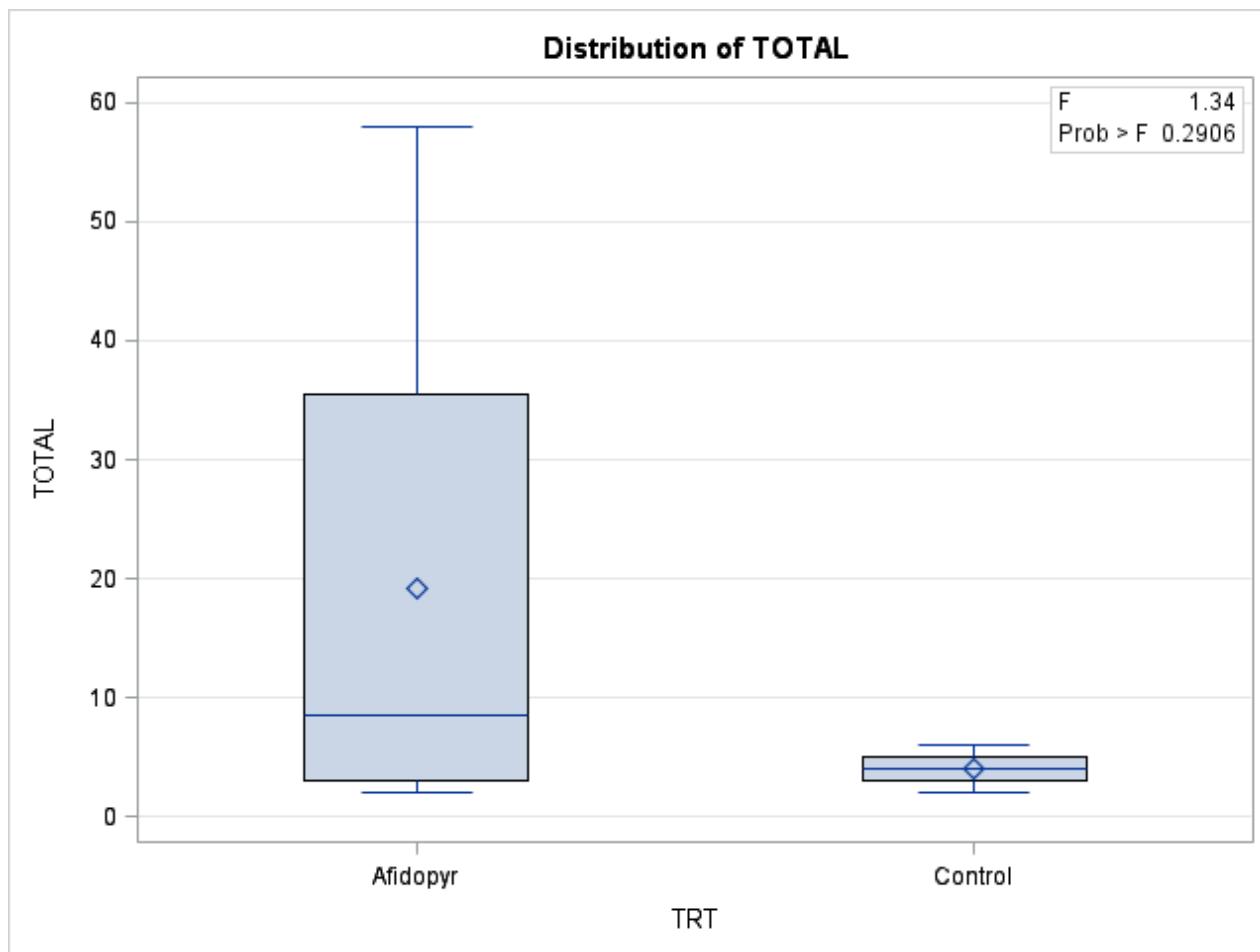
Dependent Variable: TOTAL

DAT=3

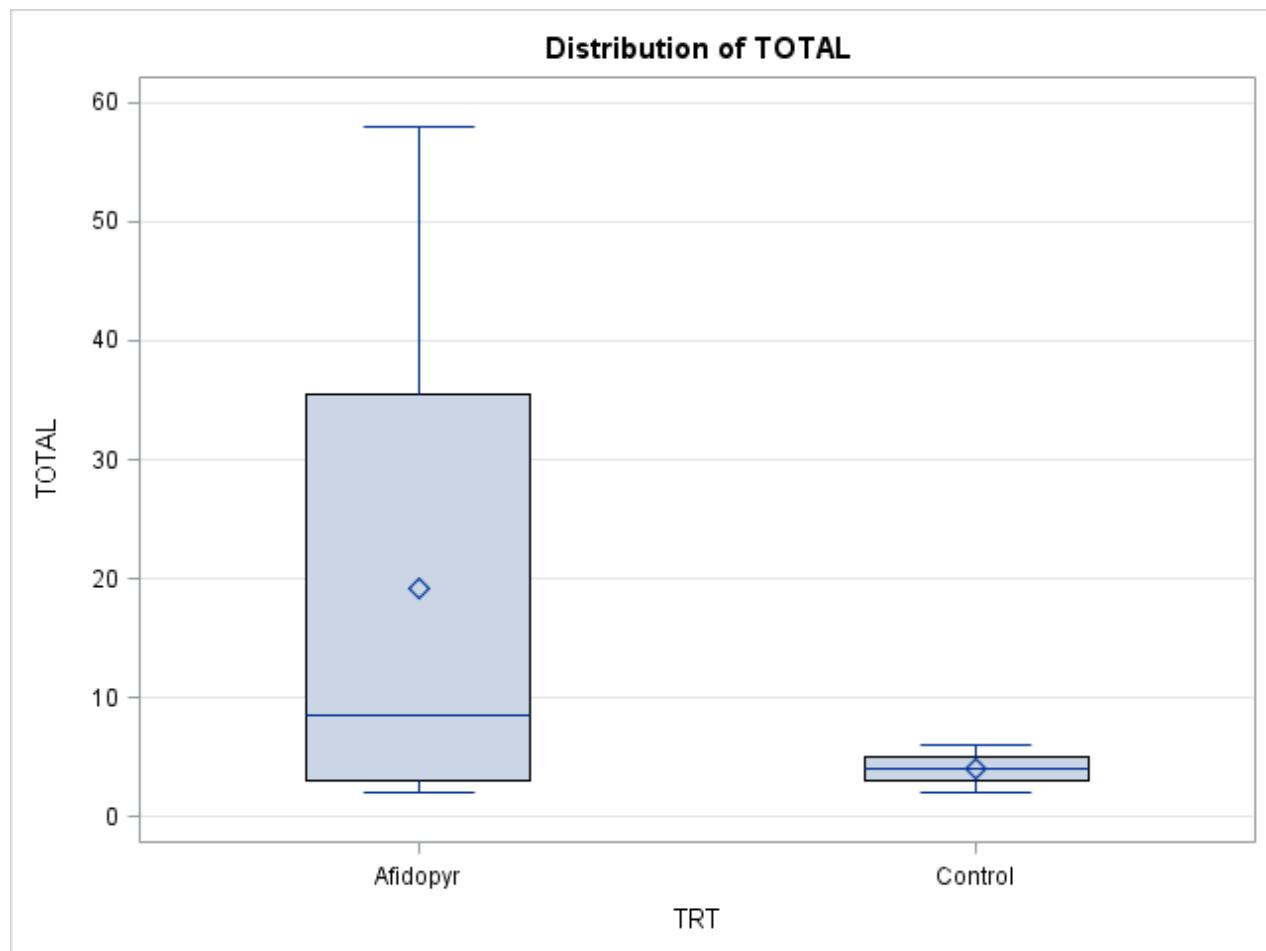
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	465.125000	465.125000	1.34	0.2906
Error	6	2078.750000	346.458333		
Corrected Total	7	2543.875000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.182841	160.1152	18.61339	11.62500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	465.125000	465.125000	1.34	0.2906





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=3**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	346.4583
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	32.205

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	19.25	4	Afidopyr
A			
A	4.00	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=4**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

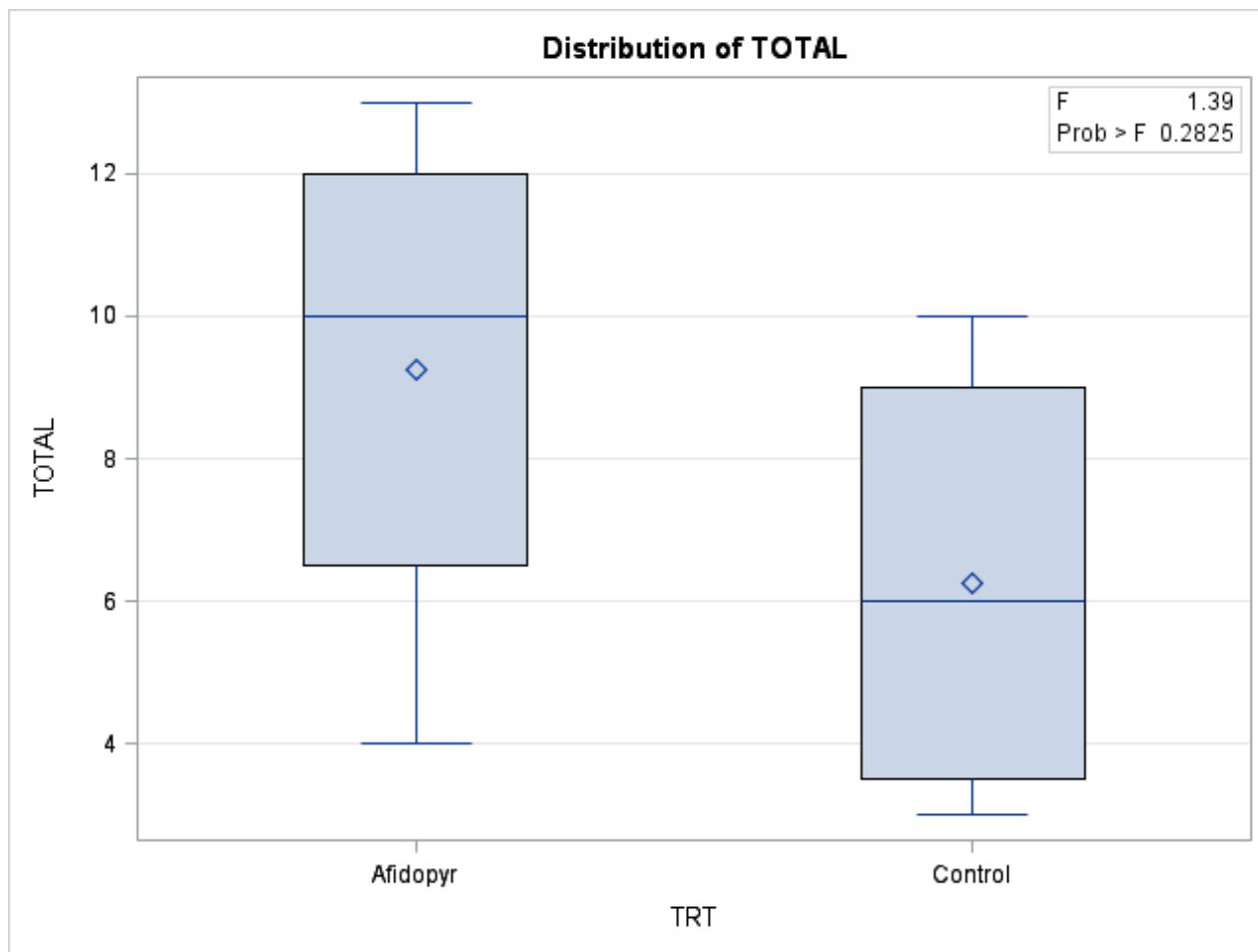
Dependent Variable: TOTAL

DAT=4

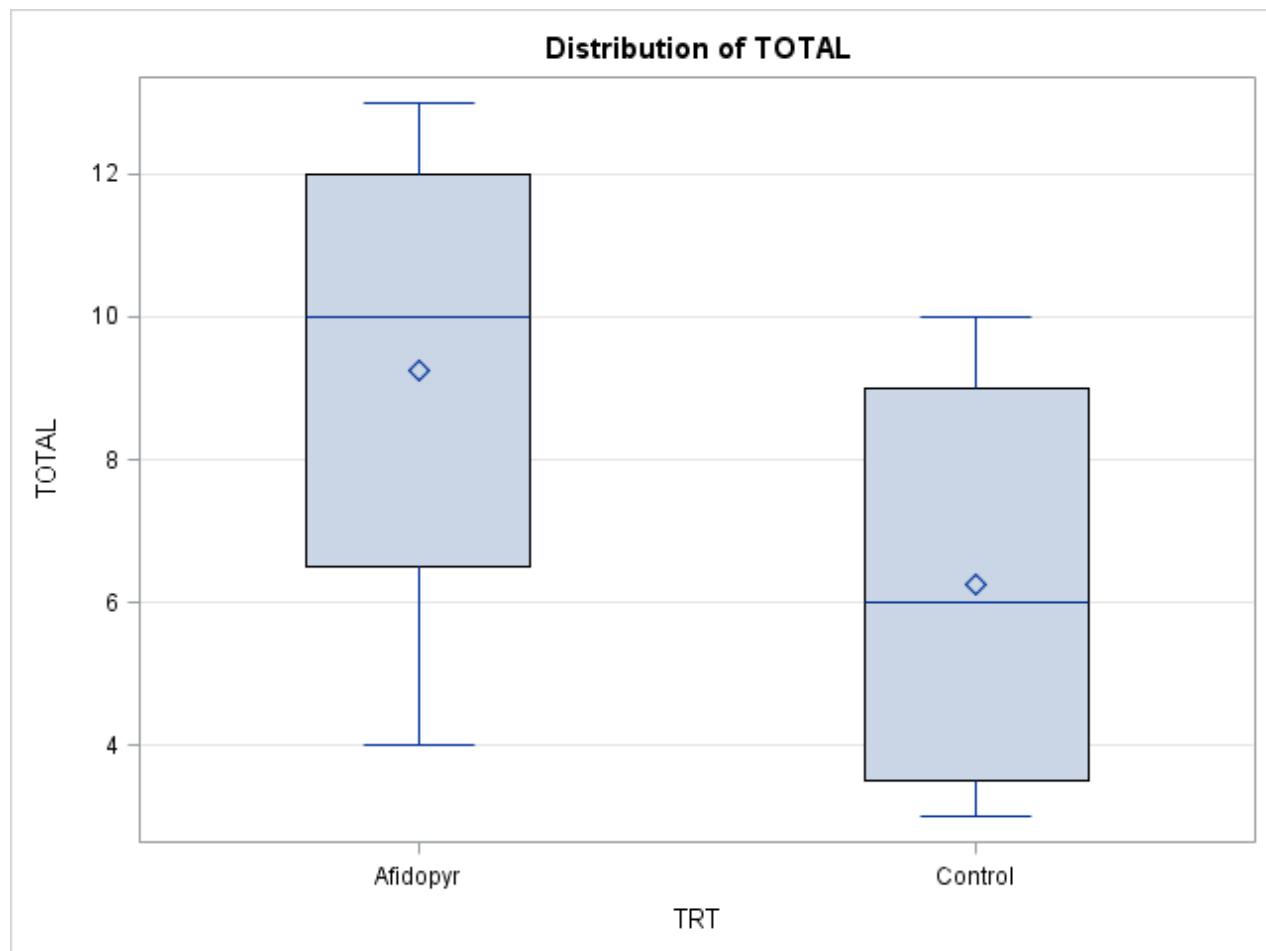
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	18.00000000	18.00000000	1.39	0.2825
Error	6	77.50000000	12.91666667		
Corrected Total	7	95.50000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.188482	46.37389	3.593976	7.750000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	18.00000000	18.00000000	1.39	0.2825





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=4**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	12.91667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	6.2184

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	9.250	4	Afidopyr
A			
A	6.250	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=5**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

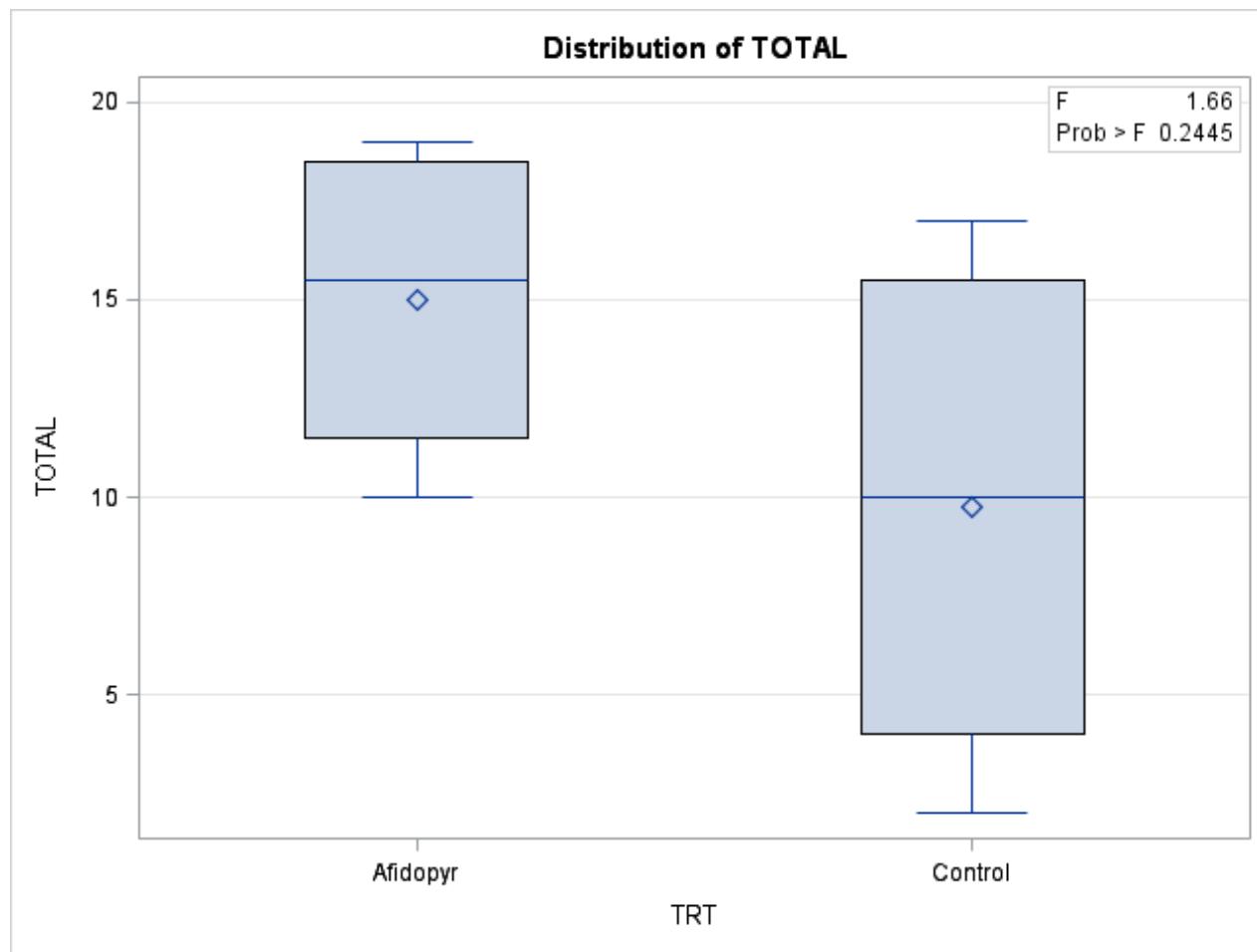
Dependent Variable: TOTAL

DAT=5

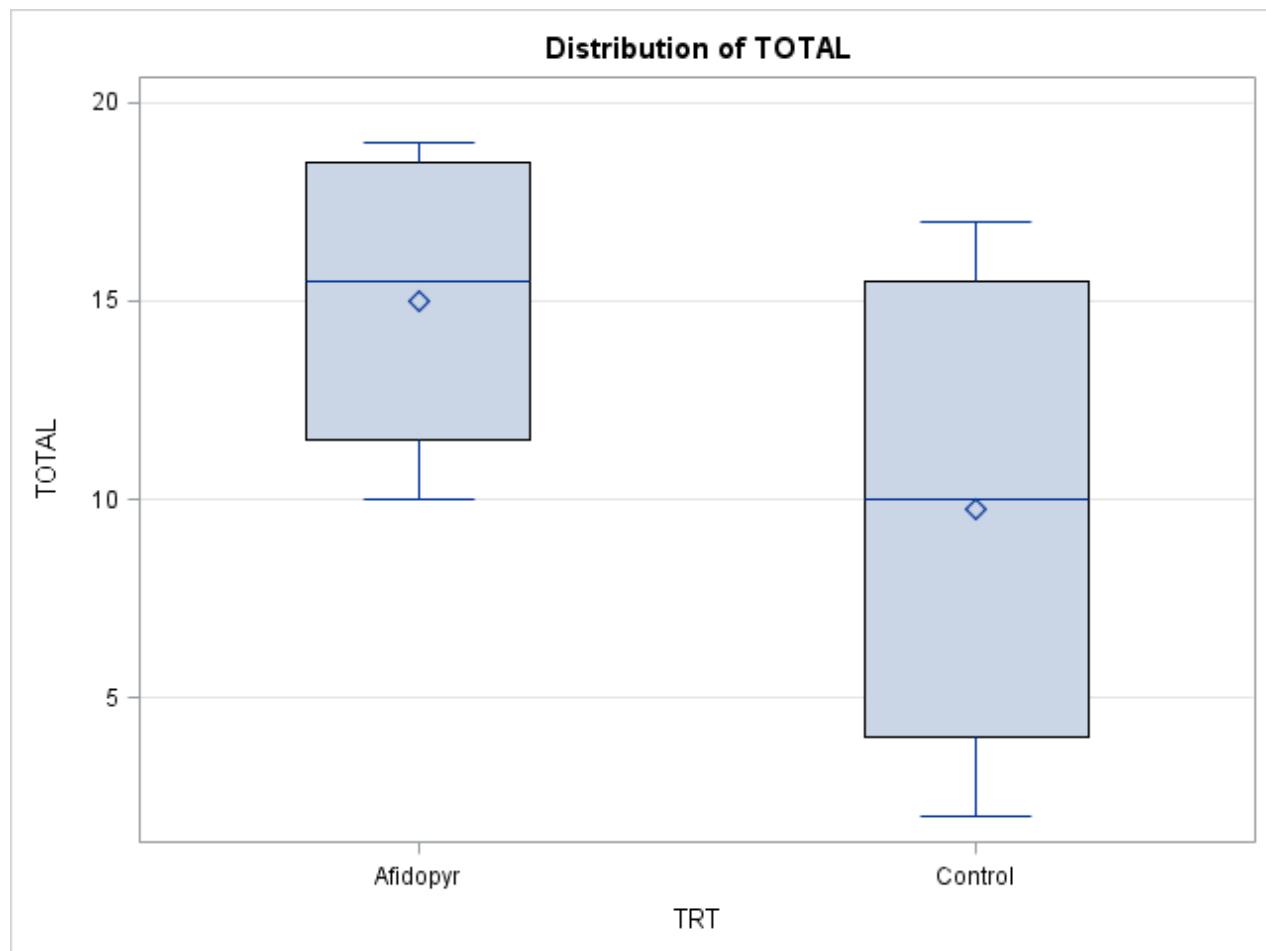
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	55.1250000	55.1250000	1.66	0.2445
Error	6	198.7500000	33.1250000		
Corrected Total	7	253.8750000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.217134	46.50854	5.755432	12.37500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	55.12500000	55.12500000	1.66	0.2445





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=5**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=5

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	33.125
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	9.9582

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	15.000	4	Afidopyr
A			
A	9.750	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=6**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

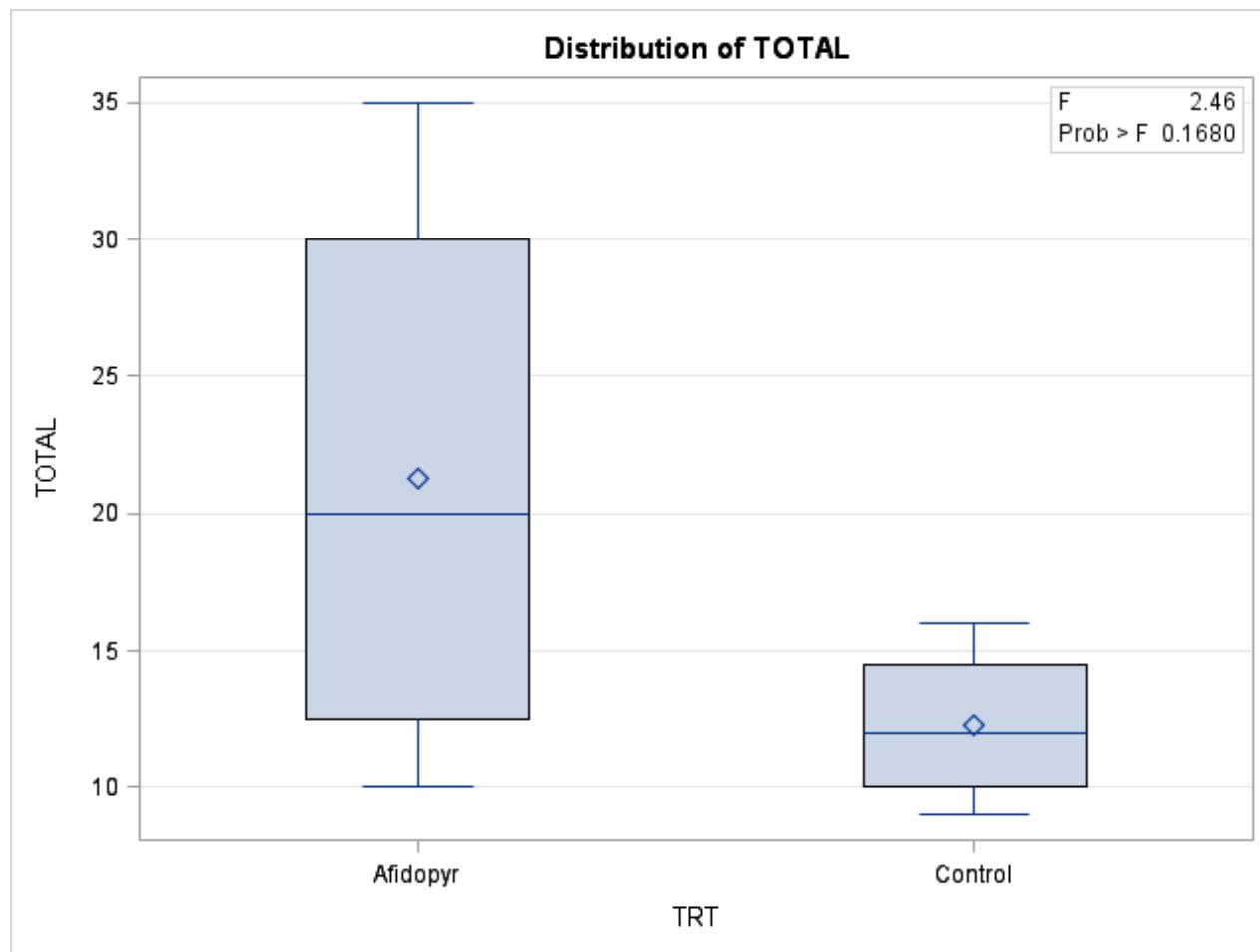
Dependent Variable: TOTAL

DAT=6

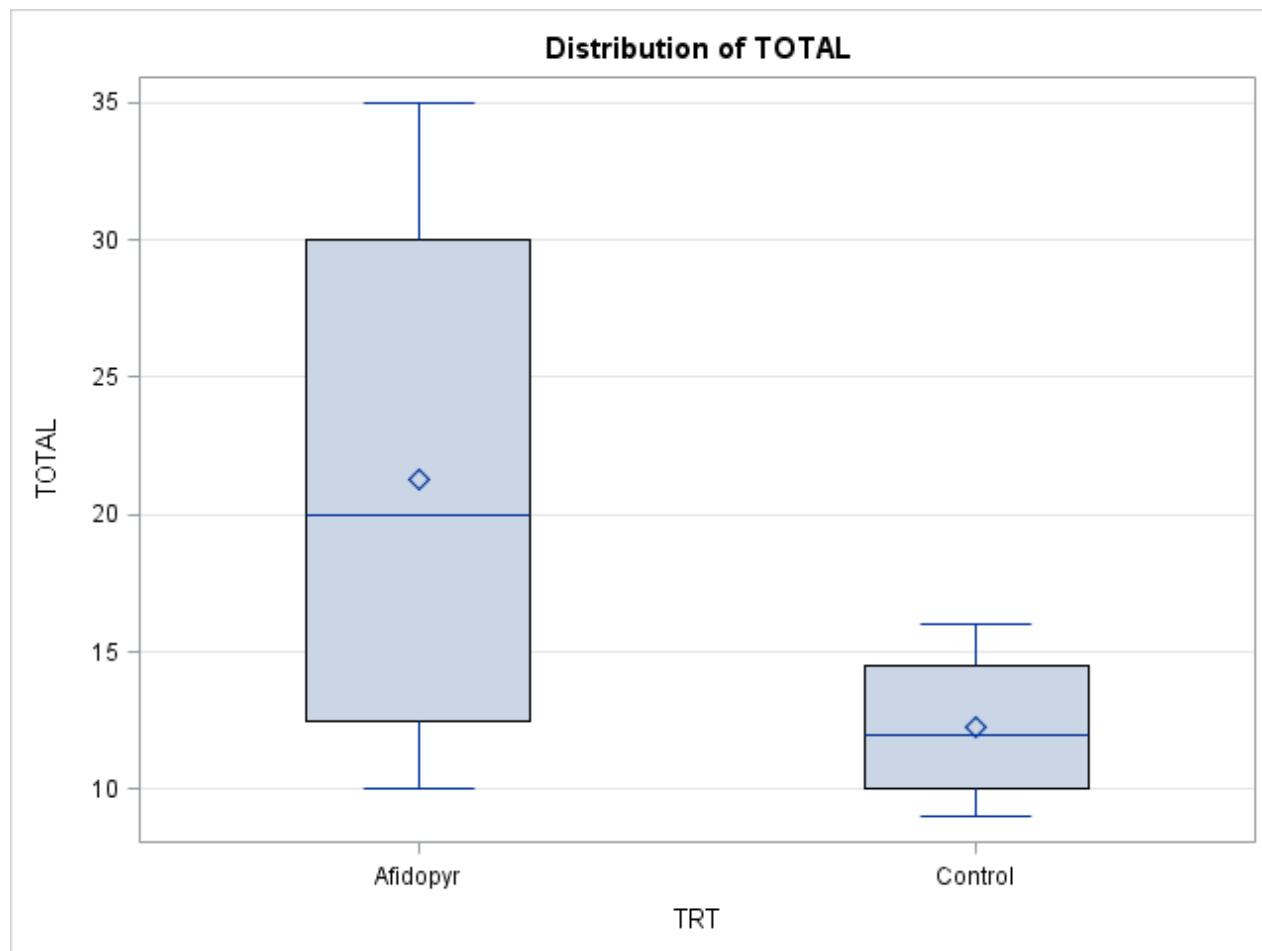
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	162.0000000	162.0000000	2.46	0.1680
Error	6	395.5000000	65.9166667		
Corrected Total	7	557.5000000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.290583	48.47109	8.118908	16.75000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	162.0000000	162.0000000	2.46	0.1680





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=6**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=6

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	65.91667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	14.048

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	21.250	4	Afidopyr
A			
A	12.250	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=7**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	8
Number of Observations Used	8

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

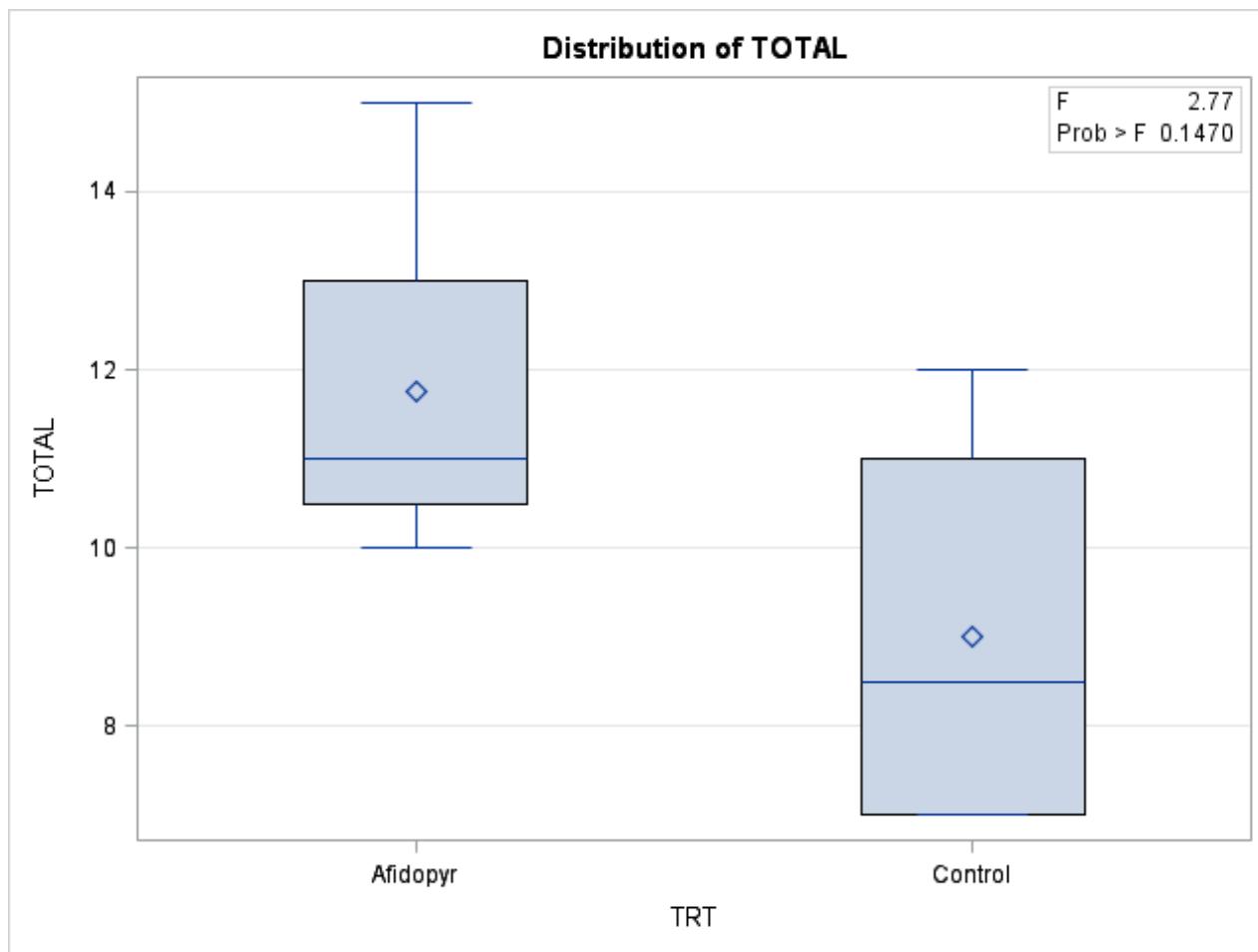
Dependent Variable: TOTAL

DAT=7

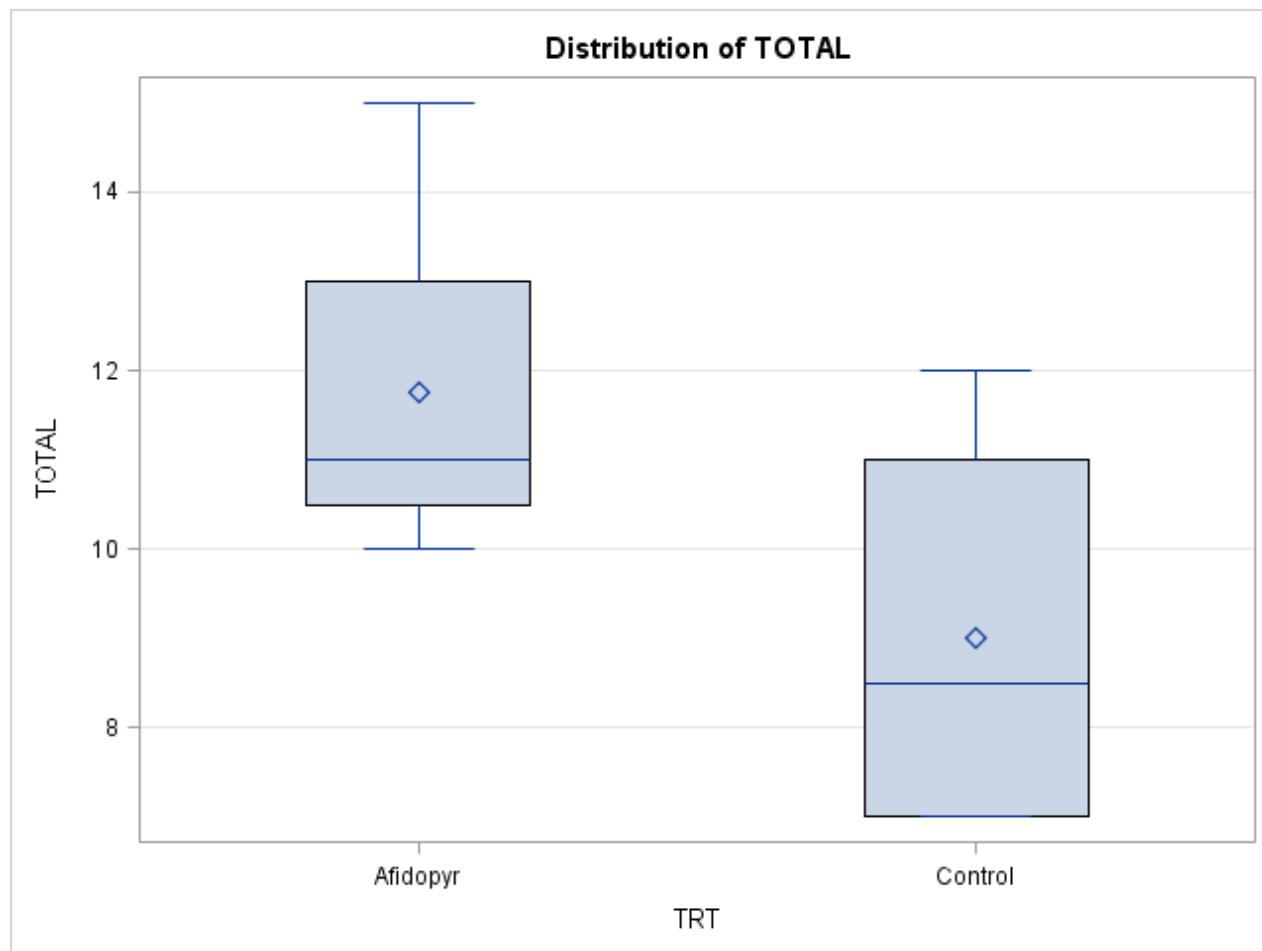
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	15.12500000	15.12500000	2.77	0.1470
Error	6	32.75000000	5.45833333		
Corrected Total	7	47.87500000			

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.315927	22.51863	2.336308	10.37500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	15.12500000	15.12500000	2.77	0.1470





**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=7**

---

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

Bonferroni (Dunn) t Tests for TOTAL

DAT=7

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	5.458333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	4.0423

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	11.750	4	Afidopyr
A			
A	9.000	4	Control

---

**ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)****The ANOVA Procedure****DAT=Oaa2**

Class Level Information		
Class	Levels	Values
TRT	1	Control

Number of Observations Read	1
Number of Observations Used	1

## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

### The ANOVA Procedure

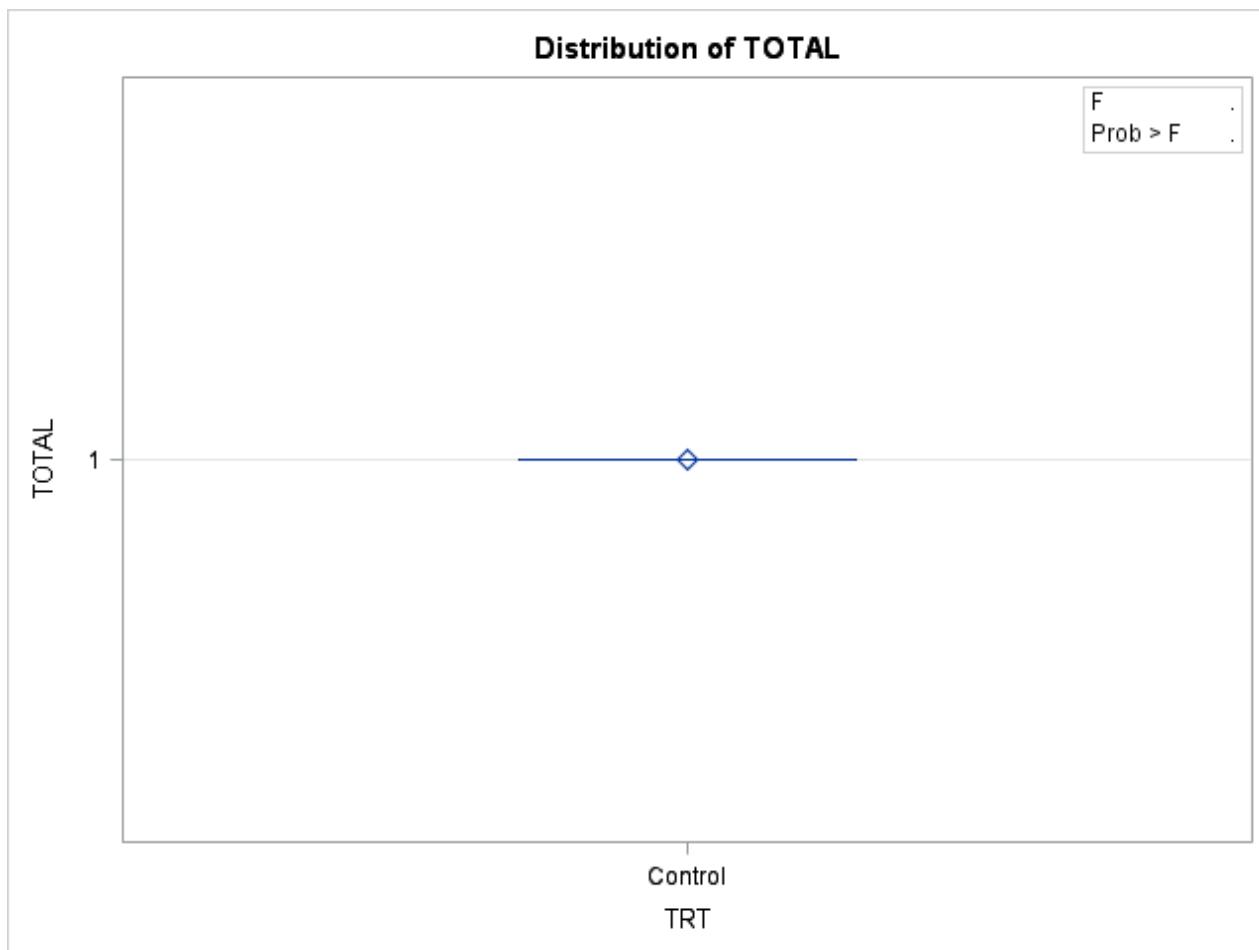
Dependent Variable: TOTAL

DAT=Oaa2

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0	.	.	.
Error	0	0	.	.	.
Corrected Total	0	0	.	.	.

R-Square	Coeff Var	Root MSE	TOTAL Mean
0.000000	.	.	1.000000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	0	0	.	.	.

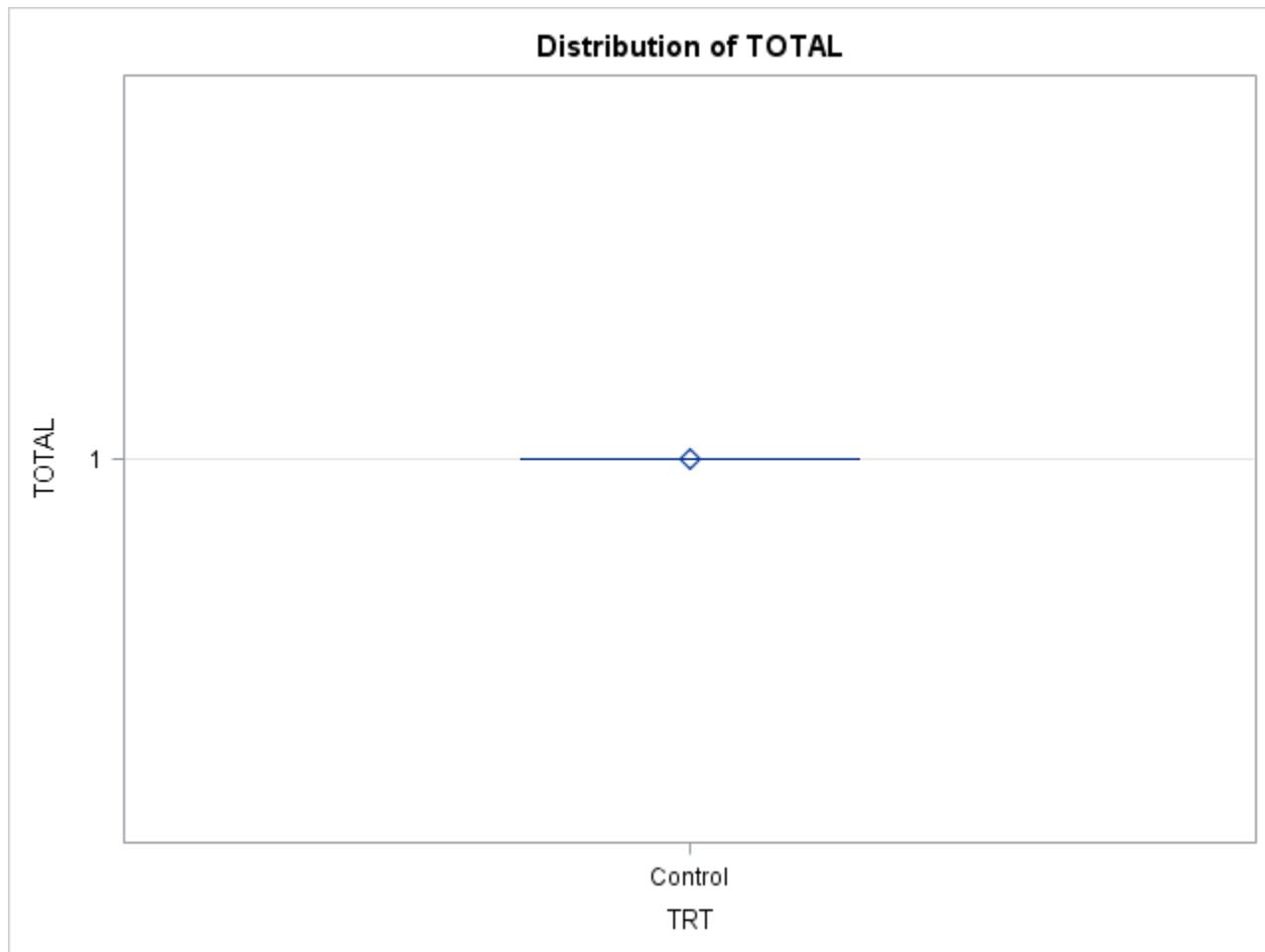




## ANOVA FOR TOTAL NUMBER OF DEAD BEES AT EACH ON EACH ASSESSMENT DAY AFTER TREATMENT (DAT)

The ANOVA Procedure

DAT=Oaa2



Level of TRT	N	TOTAL	
		Mean	Std Dev
Control	1	1.00000000	.

### SUMMARY OF FORAGING ACTIVITY BY DAT

<b>Obs</b>	<b>TRT</b>	<b>DAT</b>	<b>_TYPE_</b>	<b>_FREQ_</b>	<b>MEAN</b>	<b>STD</b>
<b>1</b>	Afidopyr	-1	0	5	4.8	0.83666
<b>2</b>	Afidopyr	-2	0	5	6.8	0.83666
<b>3</b>	Afidopyr	-3	0	5	5.4	1.14018
<b>4</b>	Afidopyr	Oaa1	0	5	3.8	1.78885
<b>5</b>	Afidopyr	Oaa2	0	5	3.2	1.64317
<b>6</b>	Afidopyr	Oaa3	0	5	3.2	1.64317
<b>7</b>	Afidopyr	Oaa4	0	5	2.6	1.94936
<b>8</b>	Afidopyr	Oaa5	0	5	1.8	0.83666
<b>9</b>	Afidopyr	Oaa6	0	5	1.0	1.00000
<b>10</b>	Afidopyr	Oaa7	0	5	0.2	0.44721
<b>11</b>	Afidopyr	Oba	0	5	7.4	1.94936
<b>12</b>	Afidopyr	1	0	5	2.6	0.89443
<b>13</b>	Afidopyr	2	0	5	4.8	1.09545
<b>14</b>	Afidopyr	3	0	5	3.0	1.58114
<b>15</b>	Afidopyr	4	0	5	0.8	0.83666
<b>16</b>	Afidopyr	5	0	5	7.0	2.00000
<b>17</b>	Afidopyr	6	0	5	10.2	3.56371
<b>18</b>	Afidopyr	7	0	5	8.6	2.40832
<b>19</b>	Control	-1	0	5	2.8	0.83666
<b>20</b>	Control	-2	0	5	2.0	1.58114
<b>21</b>	Control	-3	0	5	1.2	1.30384
<b>22</b>	Control	Oaa1	0	5	2.0	2.00000
<b>23</b>	Control	Oaa2	0	5	2.0	1.41421
<b>24</b>	Control	Oaa3	0	5	2.0	1.41421
<b>25</b>	Control	Oaa4	0	5	3.2	1.09545
<b>26</b>	Control	Oaa5	0	5	2.0	0.70711
<b>27</b>	Control	Oaa6	0	5	3.0	1.22474
<b>28</b>	Control	Oaa7	0	5	2.8	2.04939
<b>29</b>	Control	Oba	0	5	4.2	1.30384
<b>30</b>	Control	1	0	5	1.2	1.64317
<b>31</b>	Control	2	0	5	4.4	2.30217
<b>32</b>	Control	3	0	5	0.8	0.44721

<b>33</b>	Control	4	0	5	1.2	1.09545
<b>34</b>	Control	5	0	5	2.2	1.09545
<b>35</b>	Control	6	0	5	3.2	2.38747
<b>36</b>	Control	7	0	5	2.8	0.83666

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=-1

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

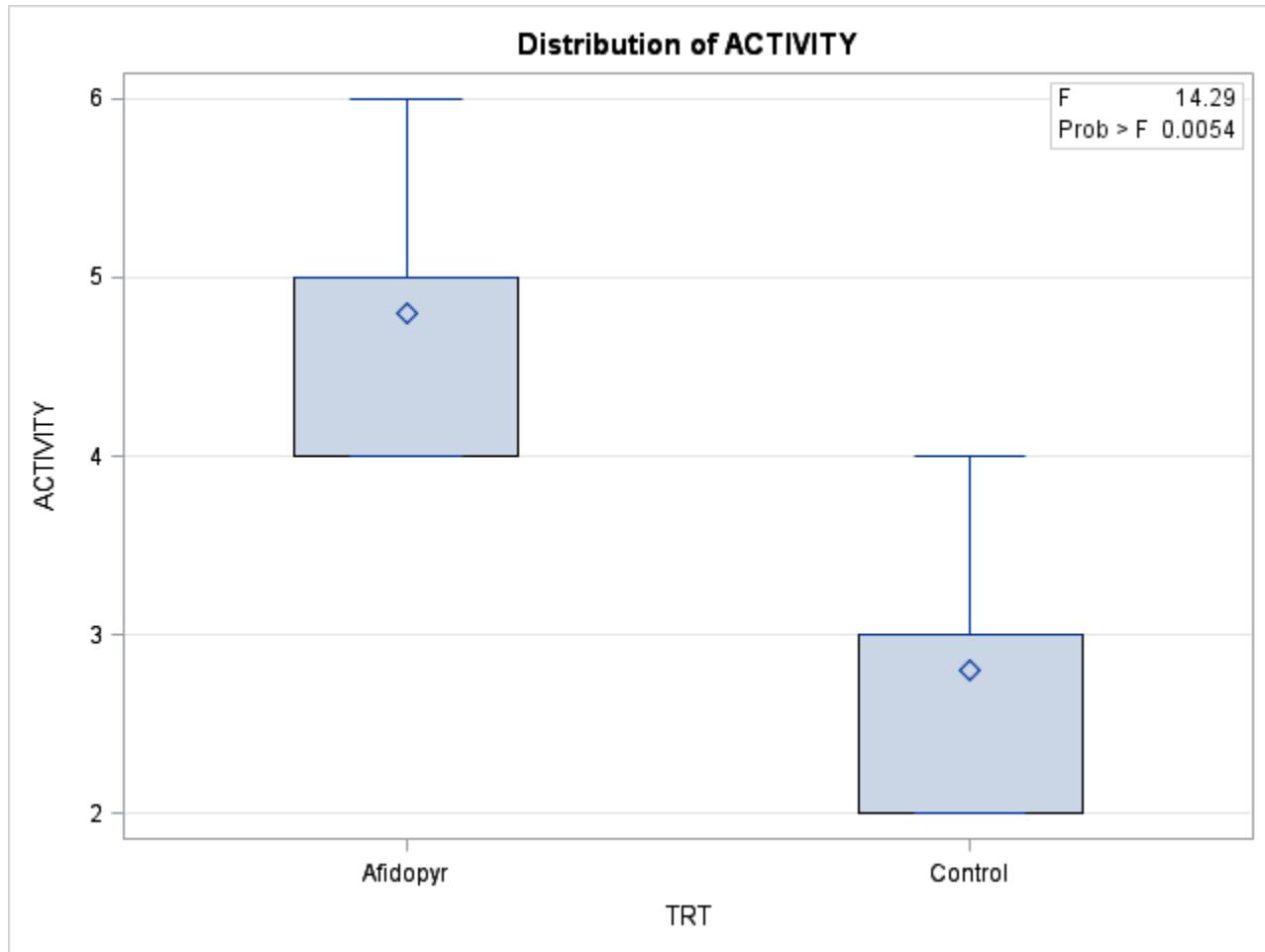
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=-1**

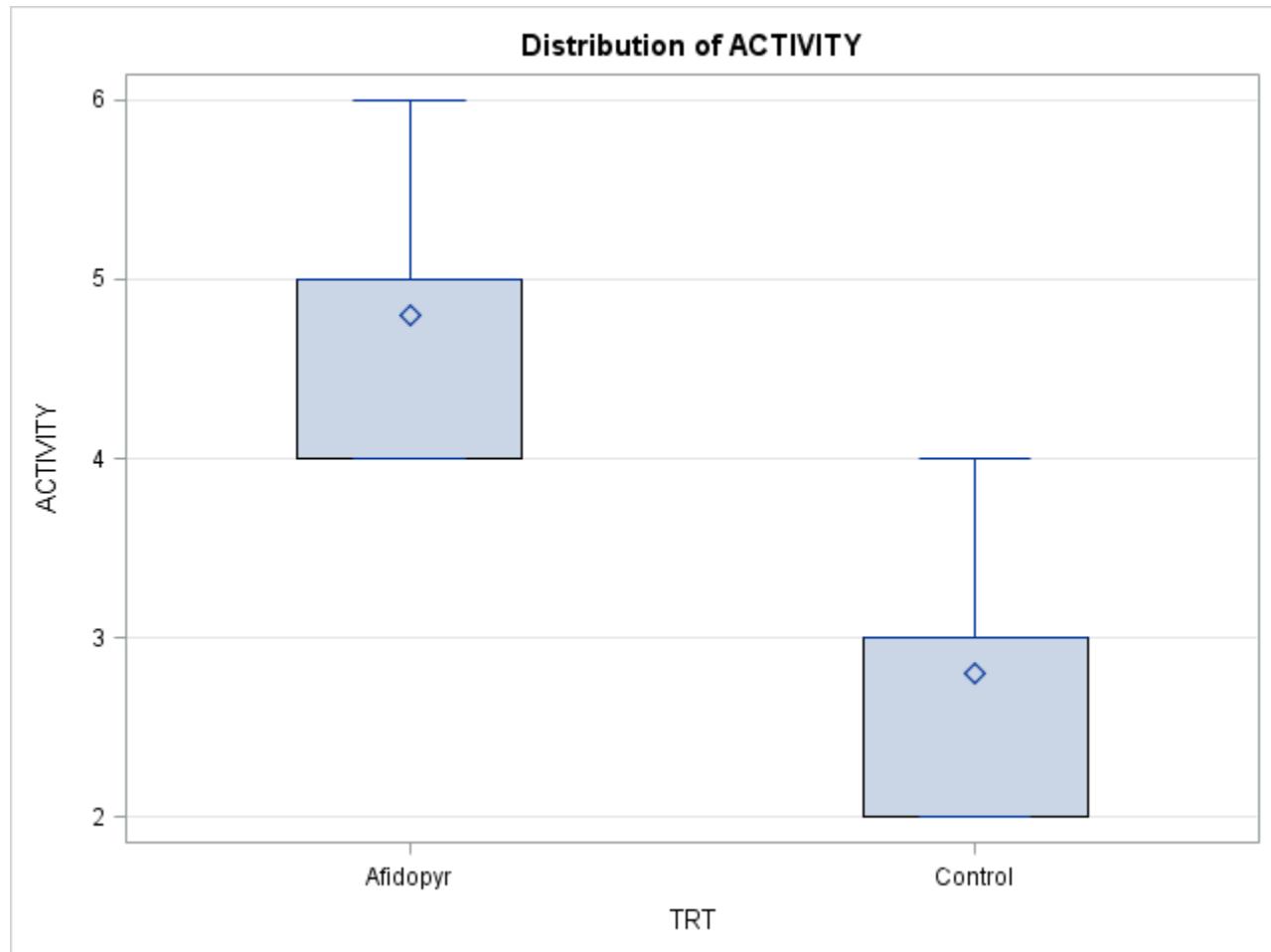
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	10.00000000	10.00000000	14.29	0.0054
<b>Error</b>	8	5.60000000	0.70000000		
<b>Corrected Total</b>	9	15.60000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.641026	22.01737	0.836660	3.800000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	10.00000000	10.00000000	14.29	0.0054





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=-1**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=-1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.7
Critical Value of t	2.30600
Minimum Significant Difference	1.2202

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	4.8000	5	Afidopyr
B	2.8000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=-2

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

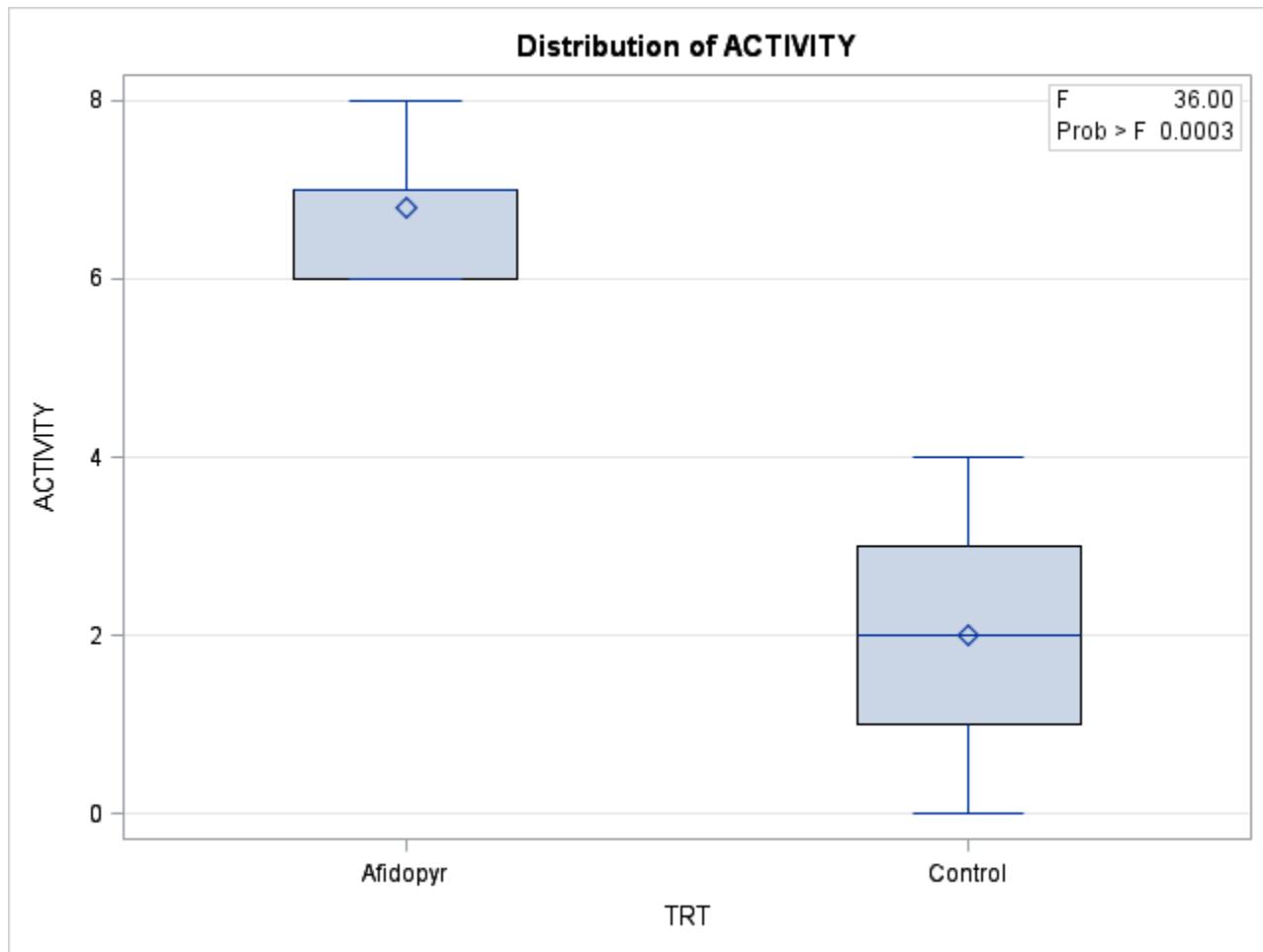
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=-2**

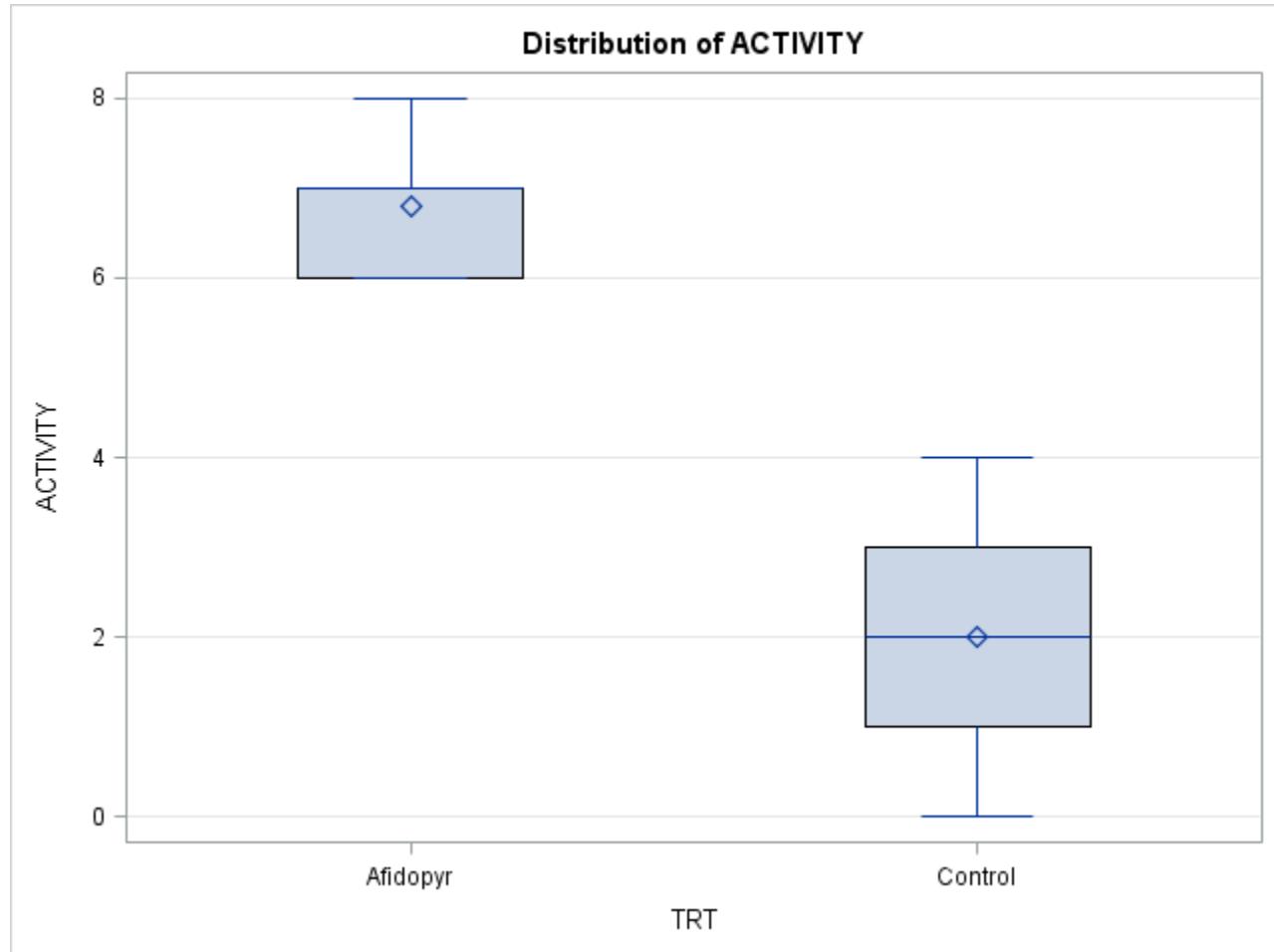
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	57.60000000	57.60000000	36.00	0.0003
<b>Error</b>	8	12.80000000	1.60000000		
<b>Corrected Total</b>	9	70.40000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.818182	28.74798	1.264911	4.400000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	57.60000000	57.60000000	36.00	0.0003





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=-2**

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=-2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.6
Critical Value of t	2.30600
Minimum Significant Difference	1.8448

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	6.8000	5	Afidopyr
B	2.0000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

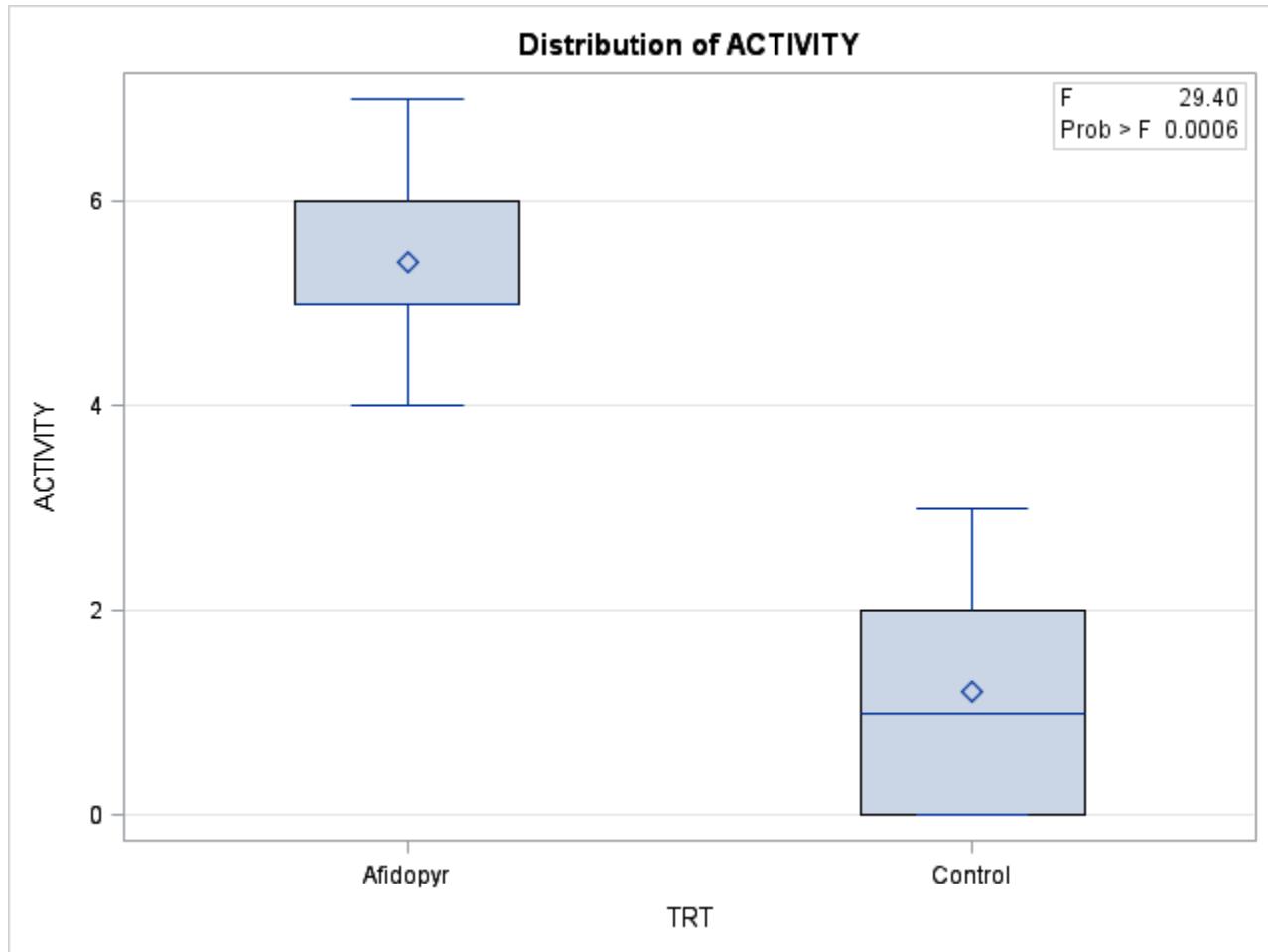
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=-3**

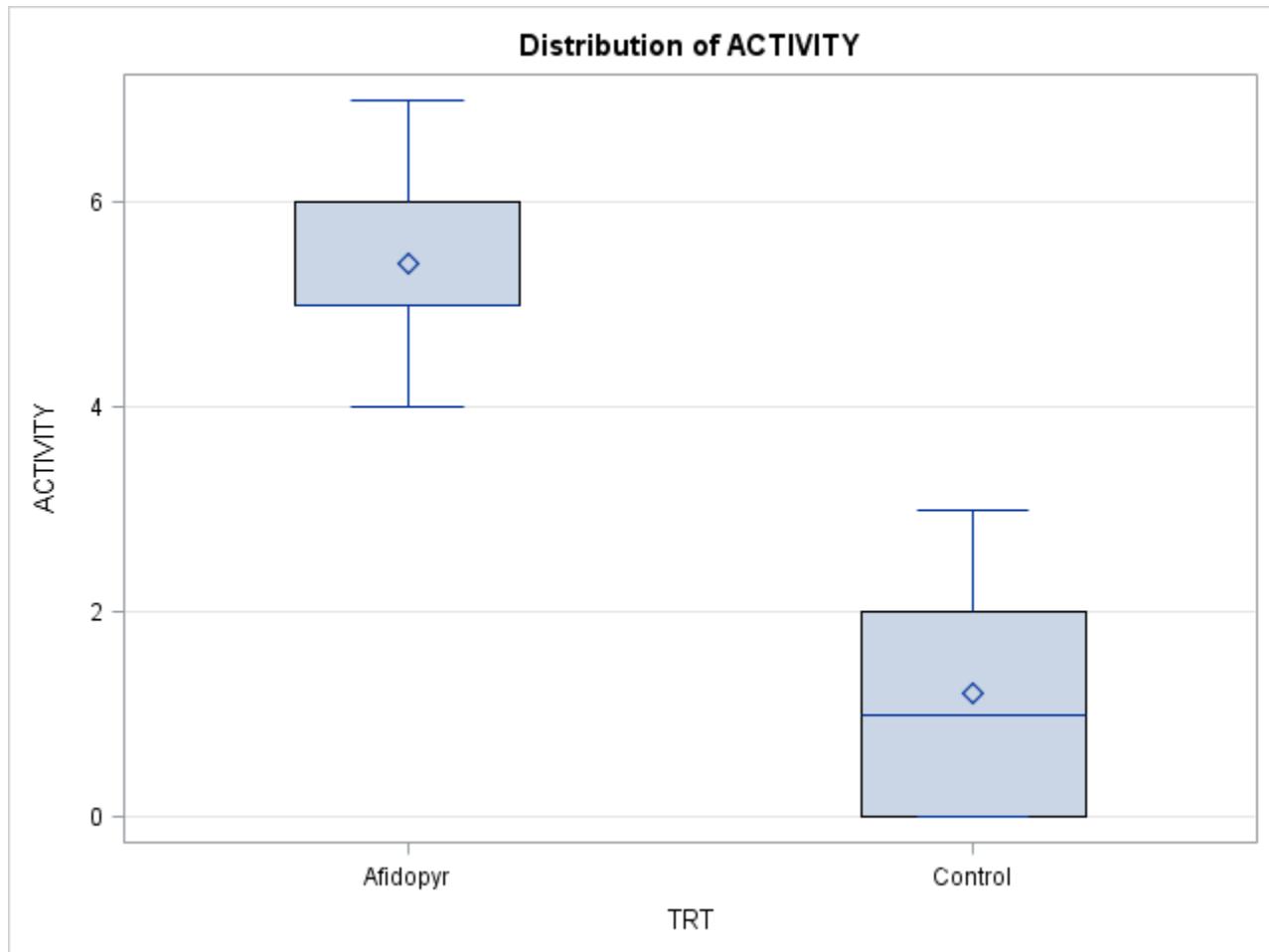
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	44.10000000	44.10000000	29.40	0.0006
<b>Error</b>	8	12.00000000	1.50000000		
<b>Corrected Total</b>	9	56.10000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.786096	37.11348	1.224745	3.300000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	44.10000000	44.10000000	29.40	0.0006





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=-3**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.5
Critical Value of t	2.30600
Minimum Significant Difference	1.7862

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	5.4000	5	Afidopyr
B	1.2000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa1

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

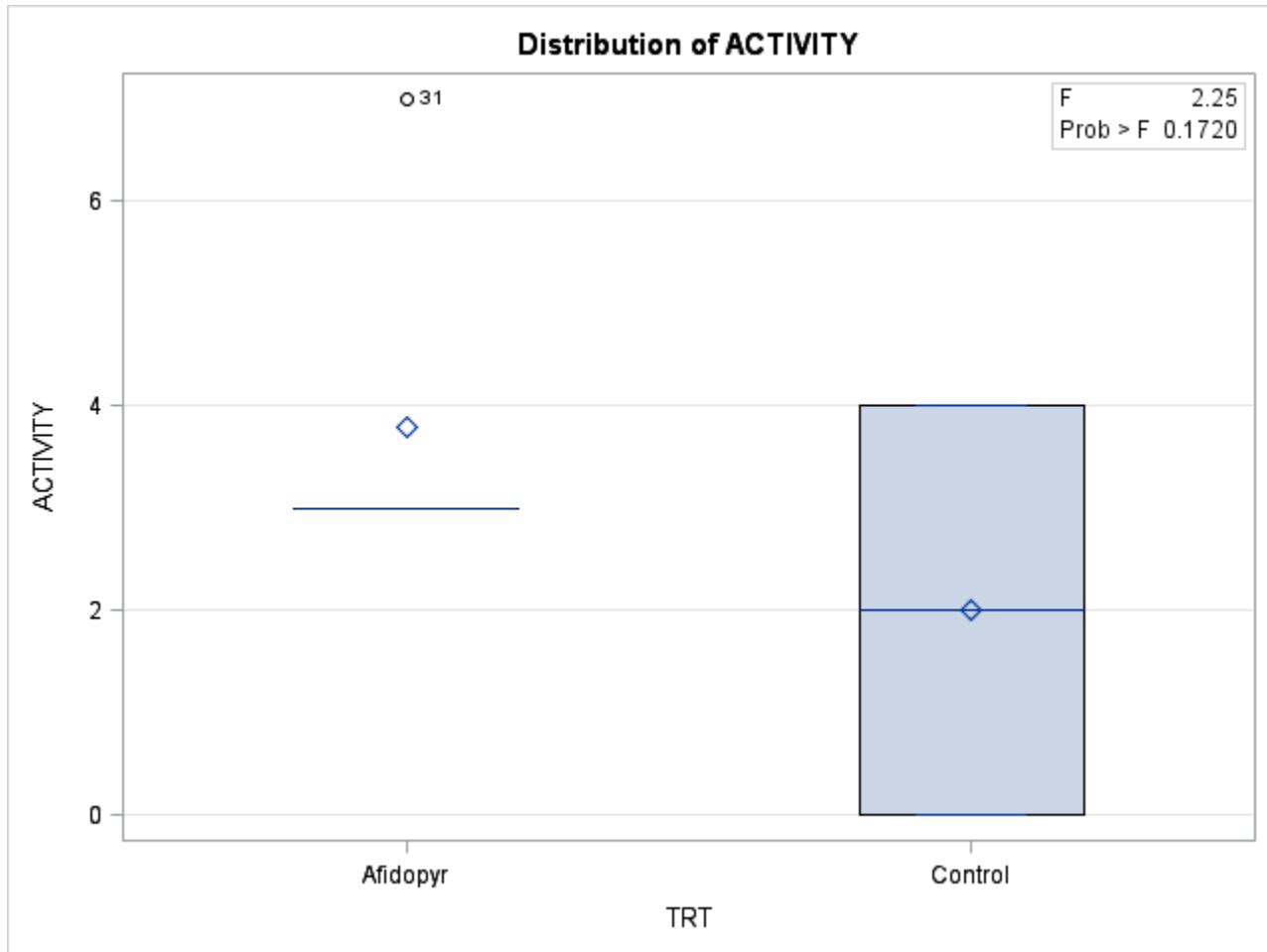
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa1**

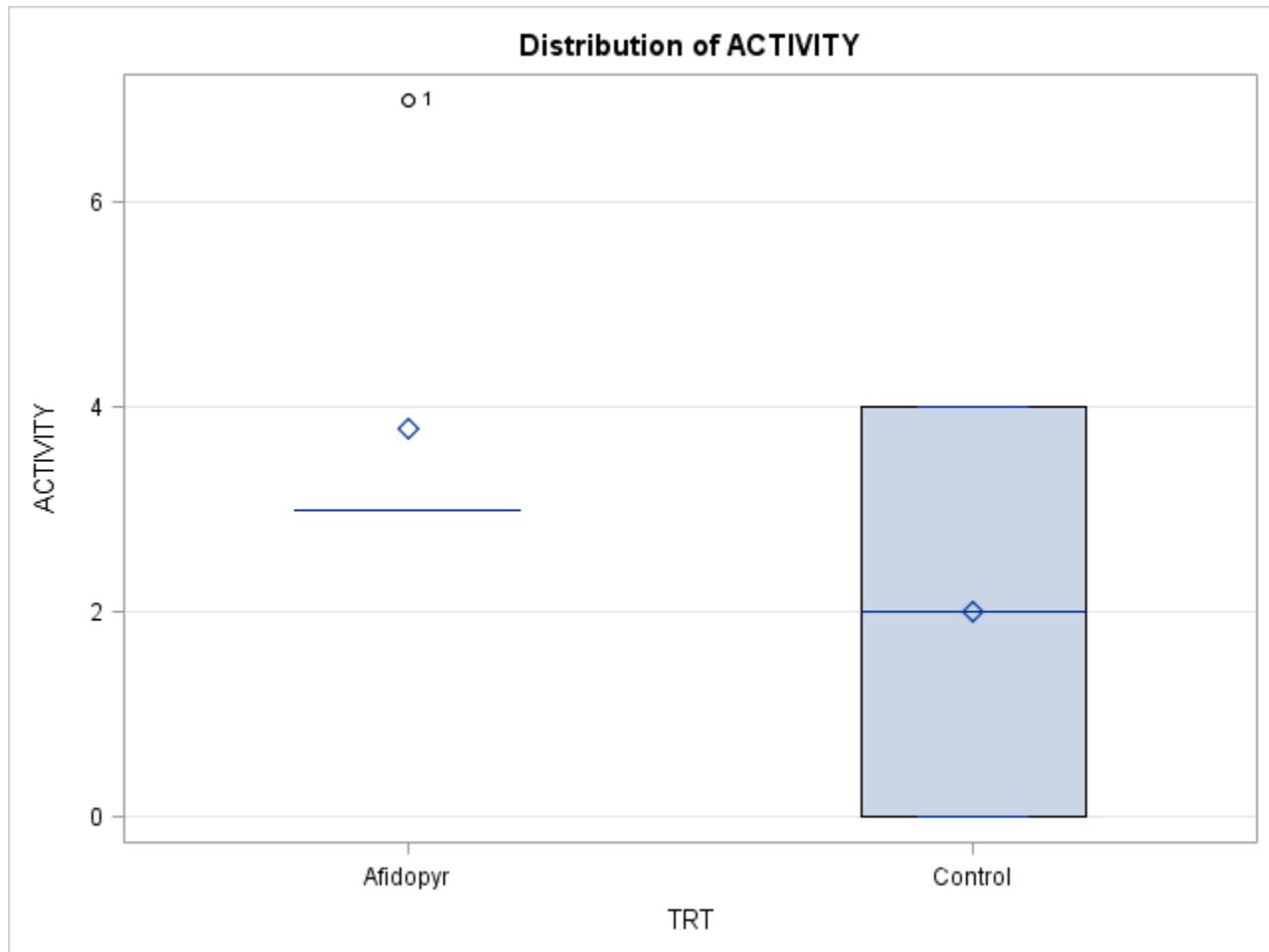
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	8.10000000	8.10000000	2.25	0.1720
<b>Error</b>	8	28.80000000	3.60000000		
<b>Corrected Total</b>	9	36.90000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.219512	65.42643	1.897367	2.900000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	8.10000000	8.10000000	2.25	0.1720





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa1**

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	3.6
Critical Value of t	2.30600
Minimum Significant Difference	2.7672

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.800	5	Afidopyr
A			
A	2.000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa2

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

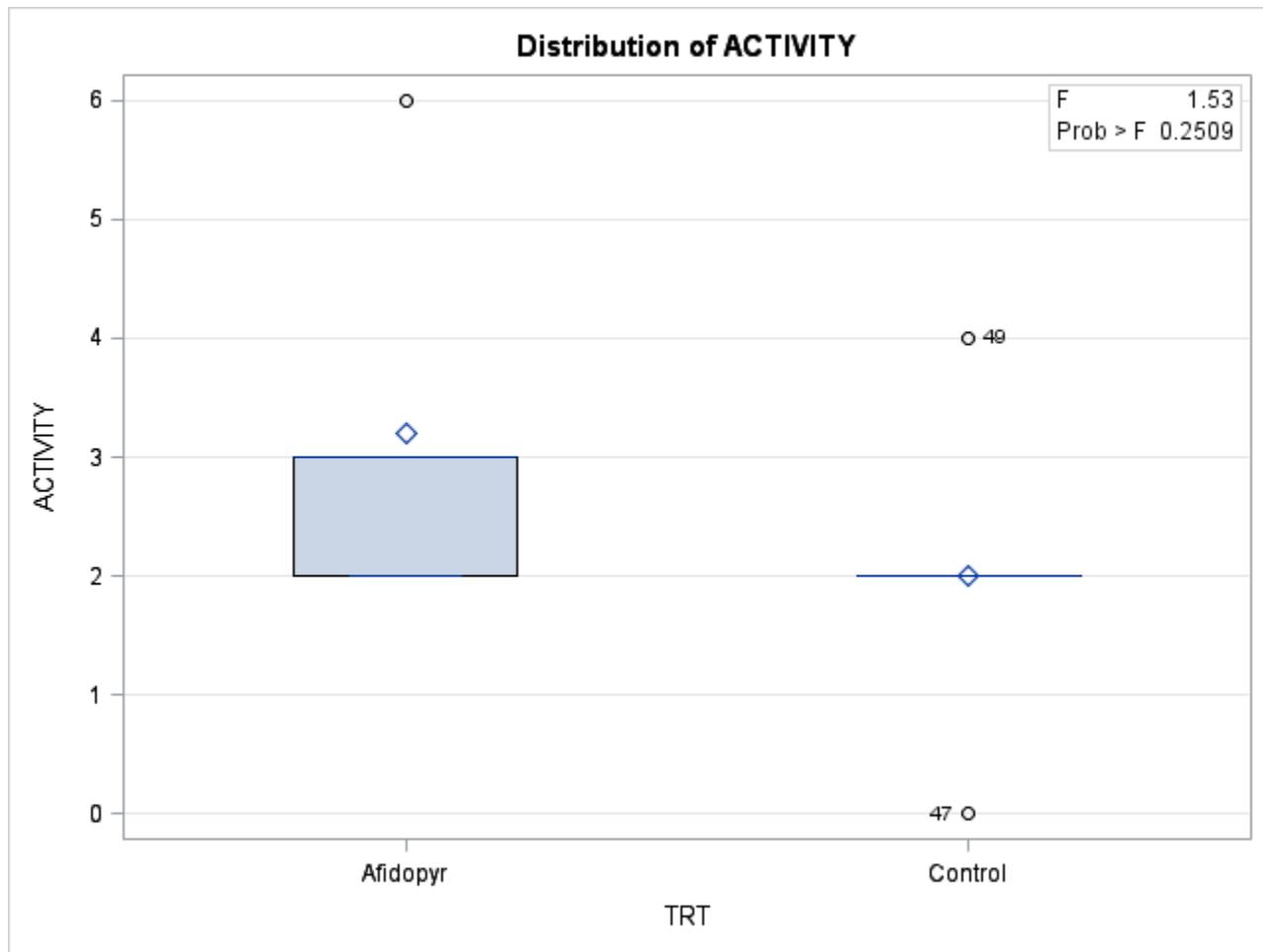
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa2**

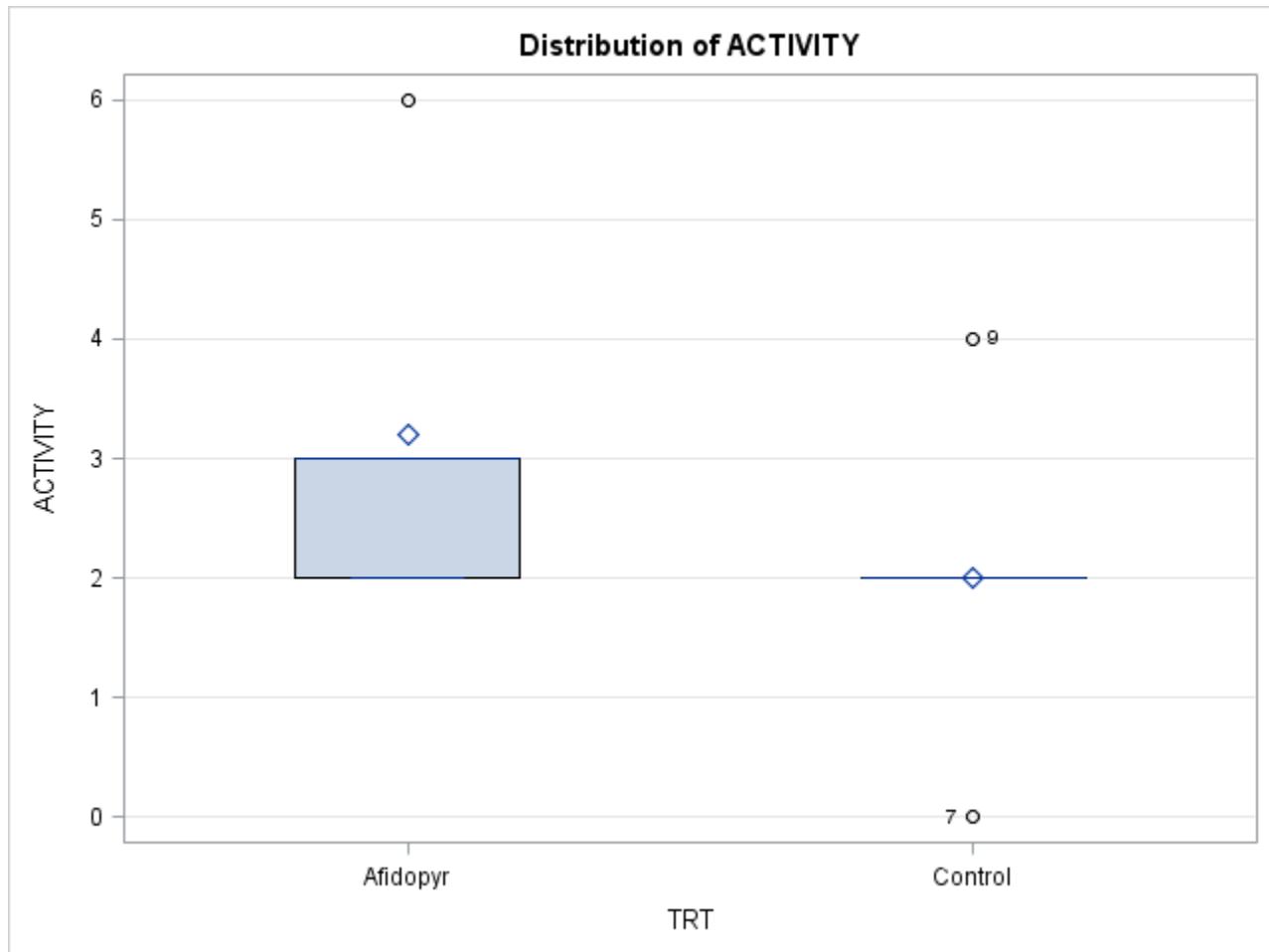
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	3.60000000	3.60000000	1.53	0.2509
<b>Error</b>	8	18.80000000	2.35000000		
<b>Corrected Total</b>	9	22.40000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.160714	58.96042	1.532971	2.600000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	3.60000000	3.60000000	1.53	0.2509





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa2**

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## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.35
Critical Value of t	2.30600
Minimum Significant Difference	2.2358

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.2000	5	Afidopyr
A			
A	2.0000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

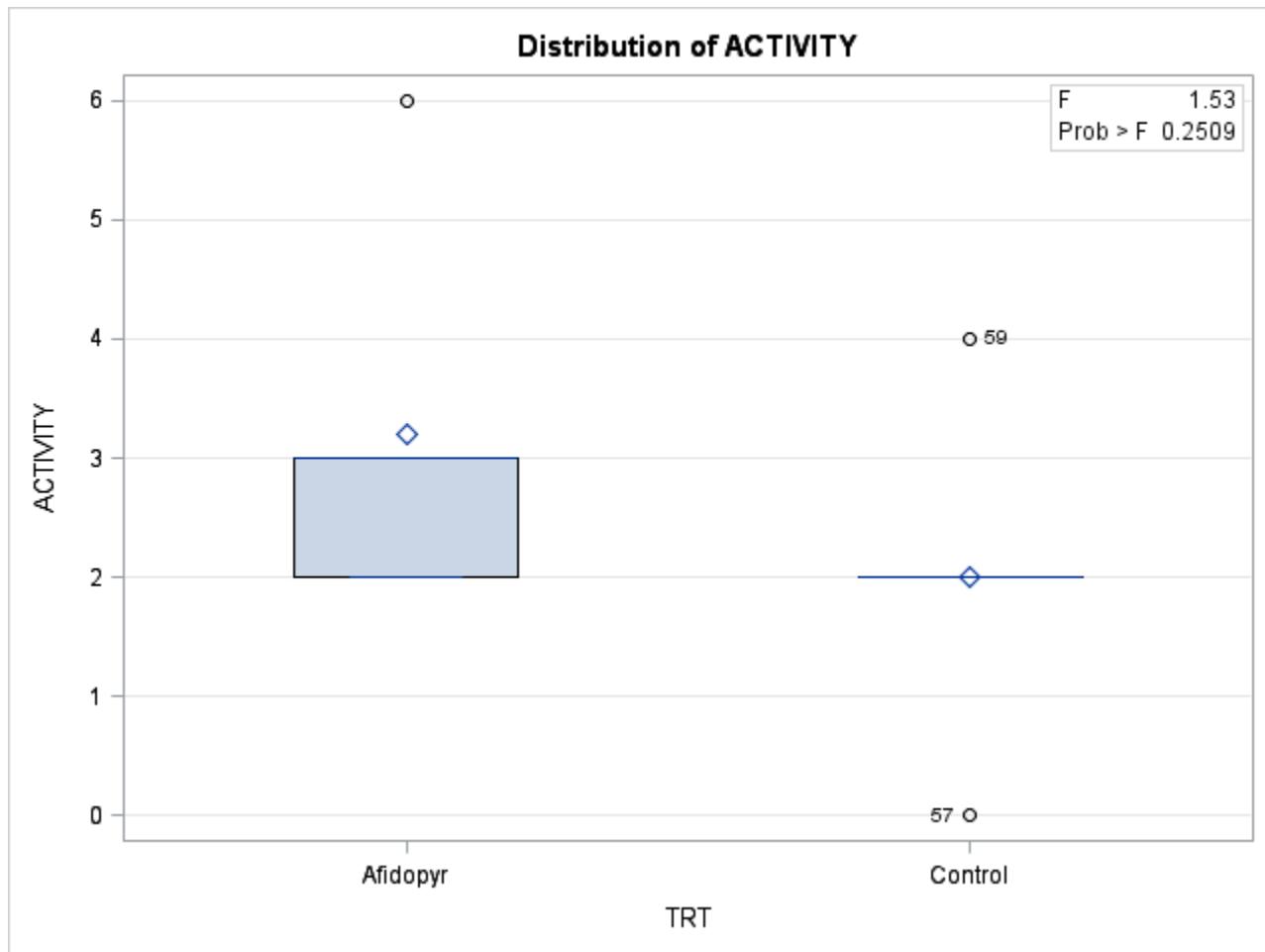
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa3**

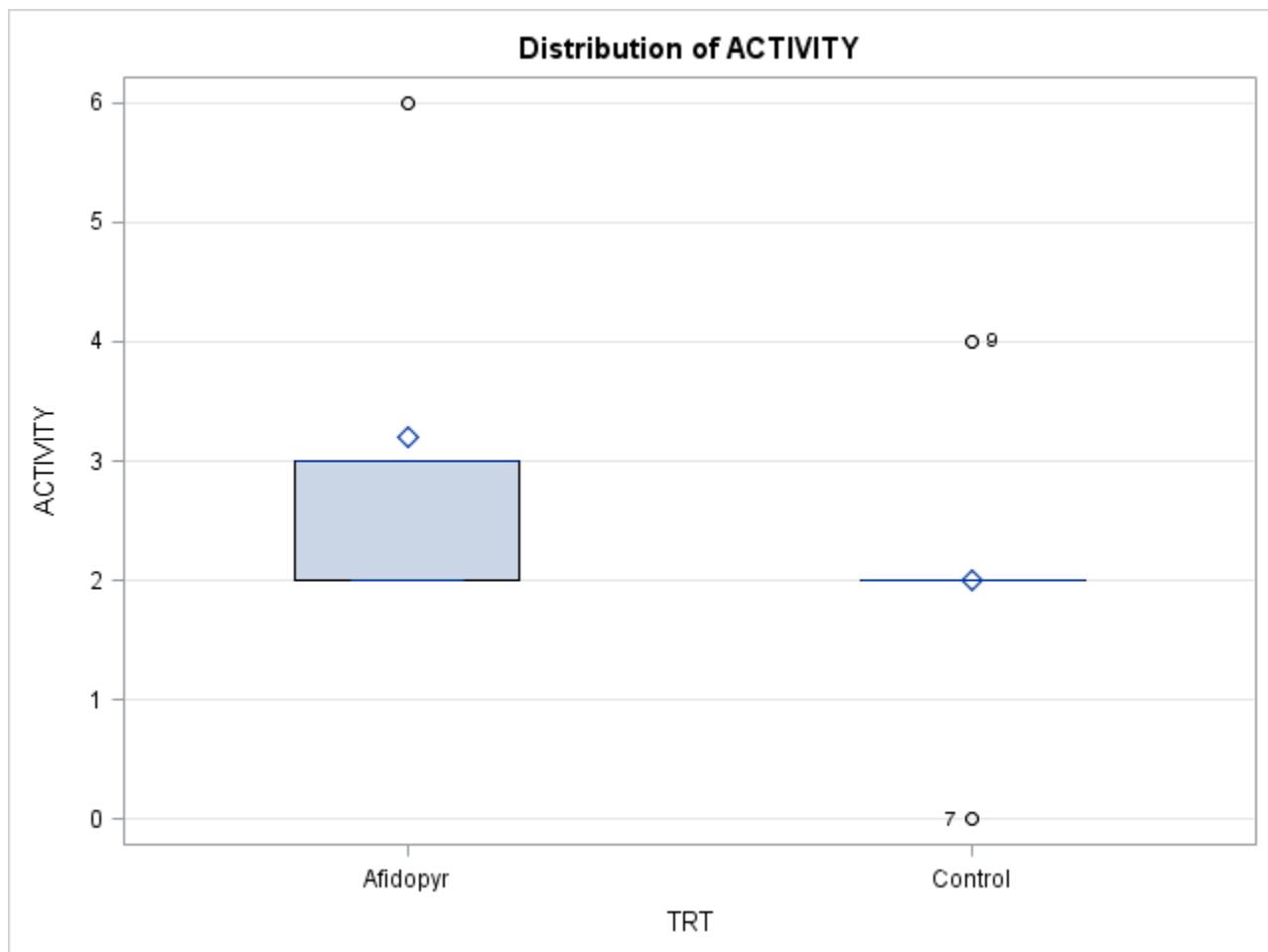
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	3.60000000	3.60000000	1.53	0.2509
<b>Error</b>	8	18.80000000	2.35000000		
<b>Corrected Total</b>	9	22.40000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.160714	58.96042	1.532971	2.600000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	3.60000000	3.60000000	1.53	0.2509





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa3**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.35
Critical Value of t	2.30600
Minimum Significant Difference	2.2358

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.2000	5	Afidopyr
A			
A	2.0000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

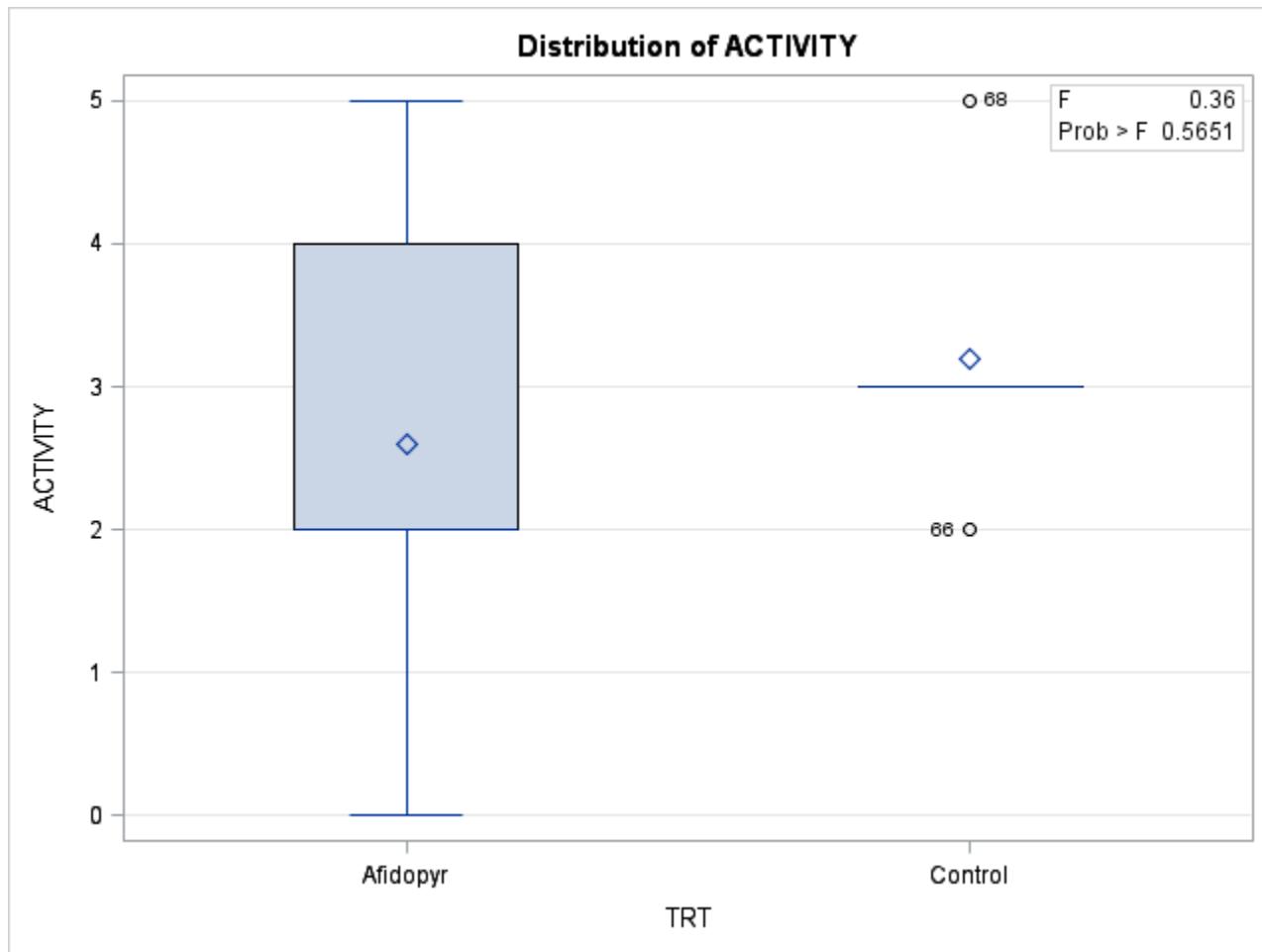
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa4**

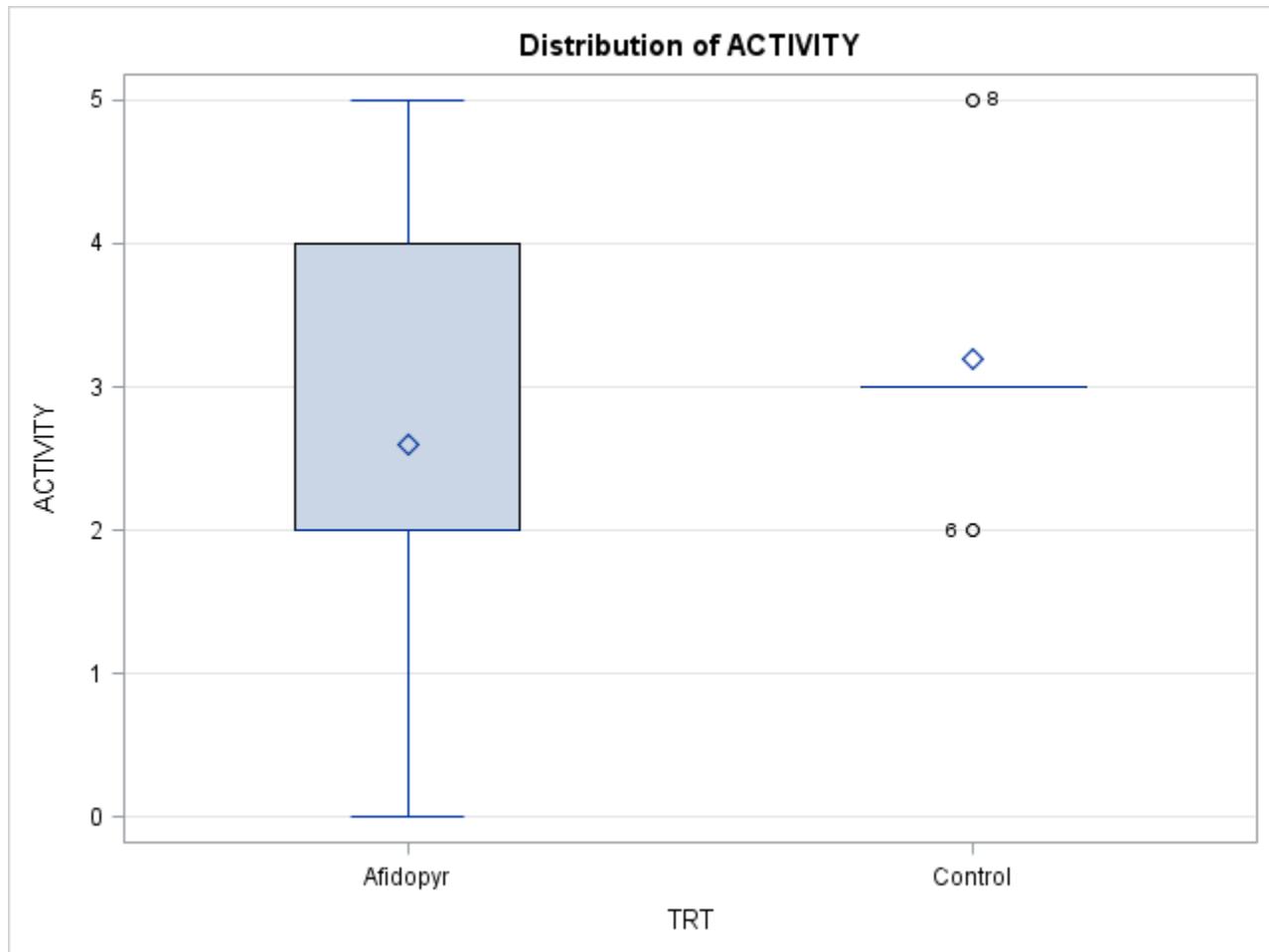
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	0.90000000	0.90000000	0.36	0.5651
<b>Error</b>	8	20.00000000	2.50000000		
<b>Corrected Total</b>	9	20.90000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.043062	54.52203	1.581139	2.900000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	0.90000000	0.90000000	0.36	0.5651





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa4**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.5
Critical Value of t	2.30600
Minimum Significant Difference	2.306

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.200	5	Control
A			
A	2.600	5	Afidopyr

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa5

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

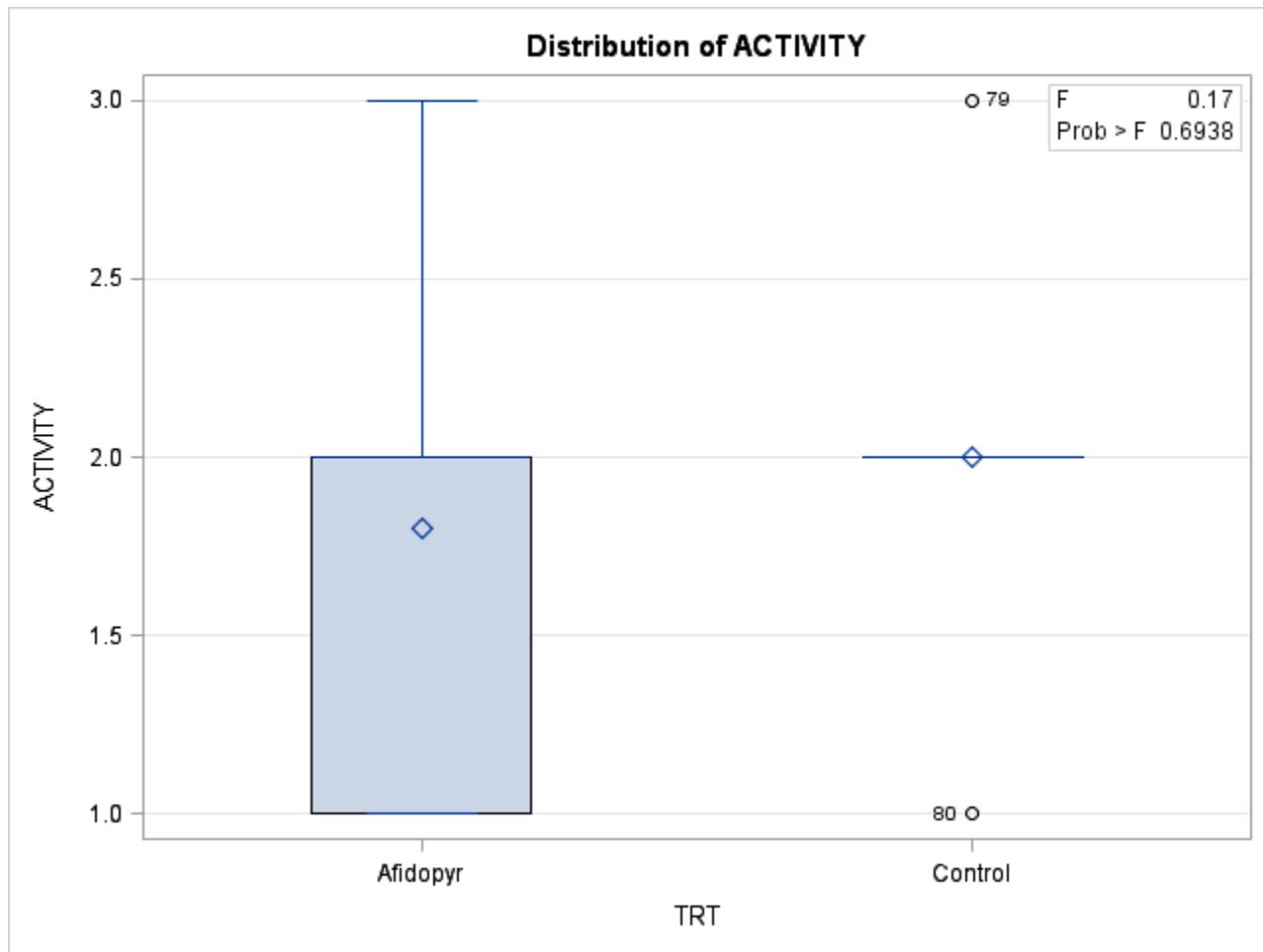
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa5**

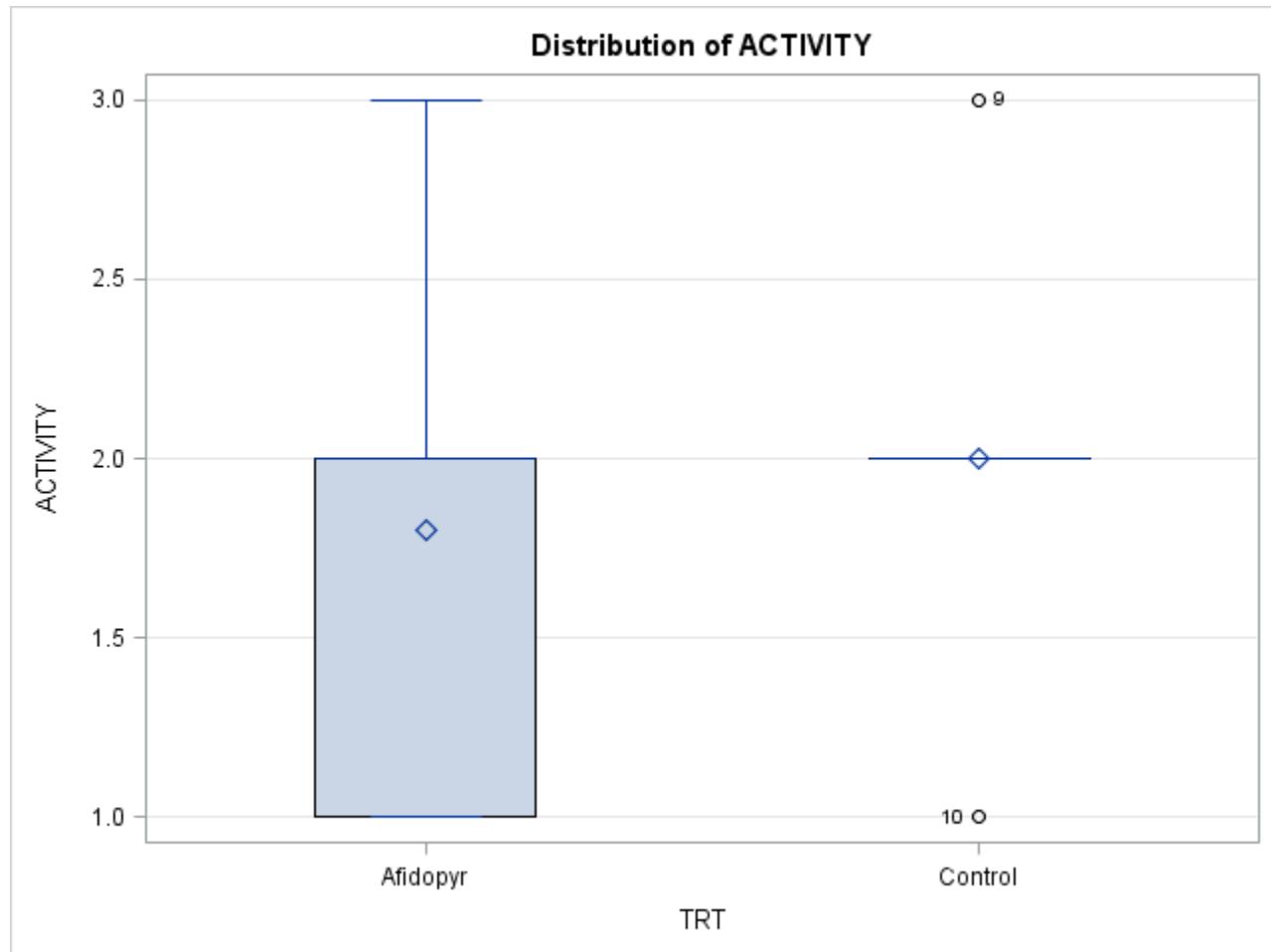
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	0.10000000	0.10000000	0.17	0.6938
<b>Error</b>	8	4.80000000	0.60000000		
<b>Corrected Total</b>	9	4.90000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.020408	40.76825	0.774597	1.900000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	0.10000000	0.10000000	0.17	0.6938





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa5**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa5

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.6
Critical Value of t	2.30600
Minimum Significant Difference	1.1297

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	2.0000	5	Control
A			
A	1.8000	5	Afidopyr

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa6

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

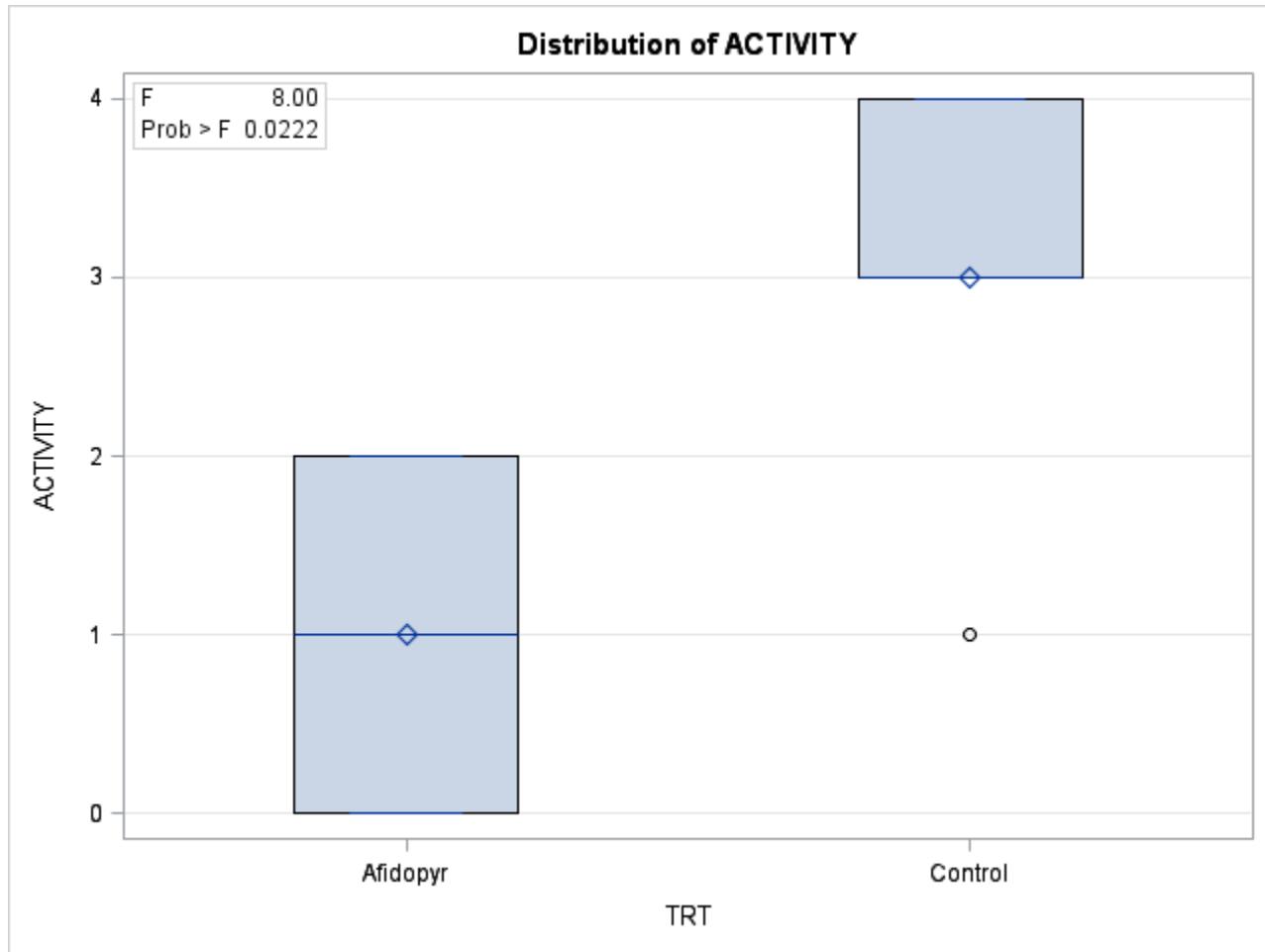
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa6**

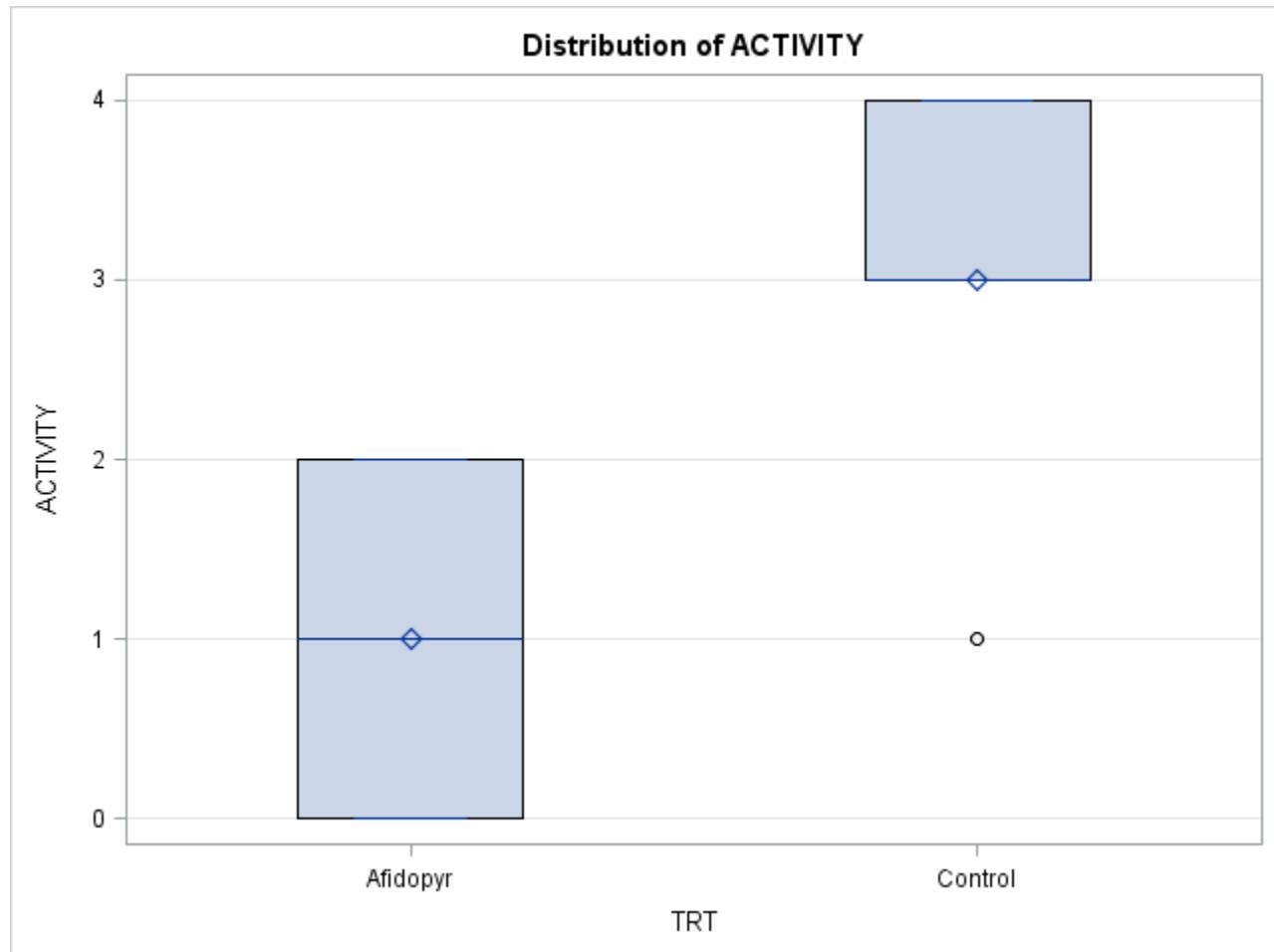
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	10.00000000	10.00000000	8.00	0.0222
<b>Error</b>	8	10.00000000	1.25000000		
<b>Corrected Total</b>	9	20.00000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.500000	55.90170	1.118034	2.000000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	10.00000000	10.00000000	8.00	0.0222





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa6**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa6

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.25
Critical Value of t	2.30600
Minimum Significant Difference	1.6306

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.0000	5	Control
B	1.0000	5	Afidopyr

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0aa7

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

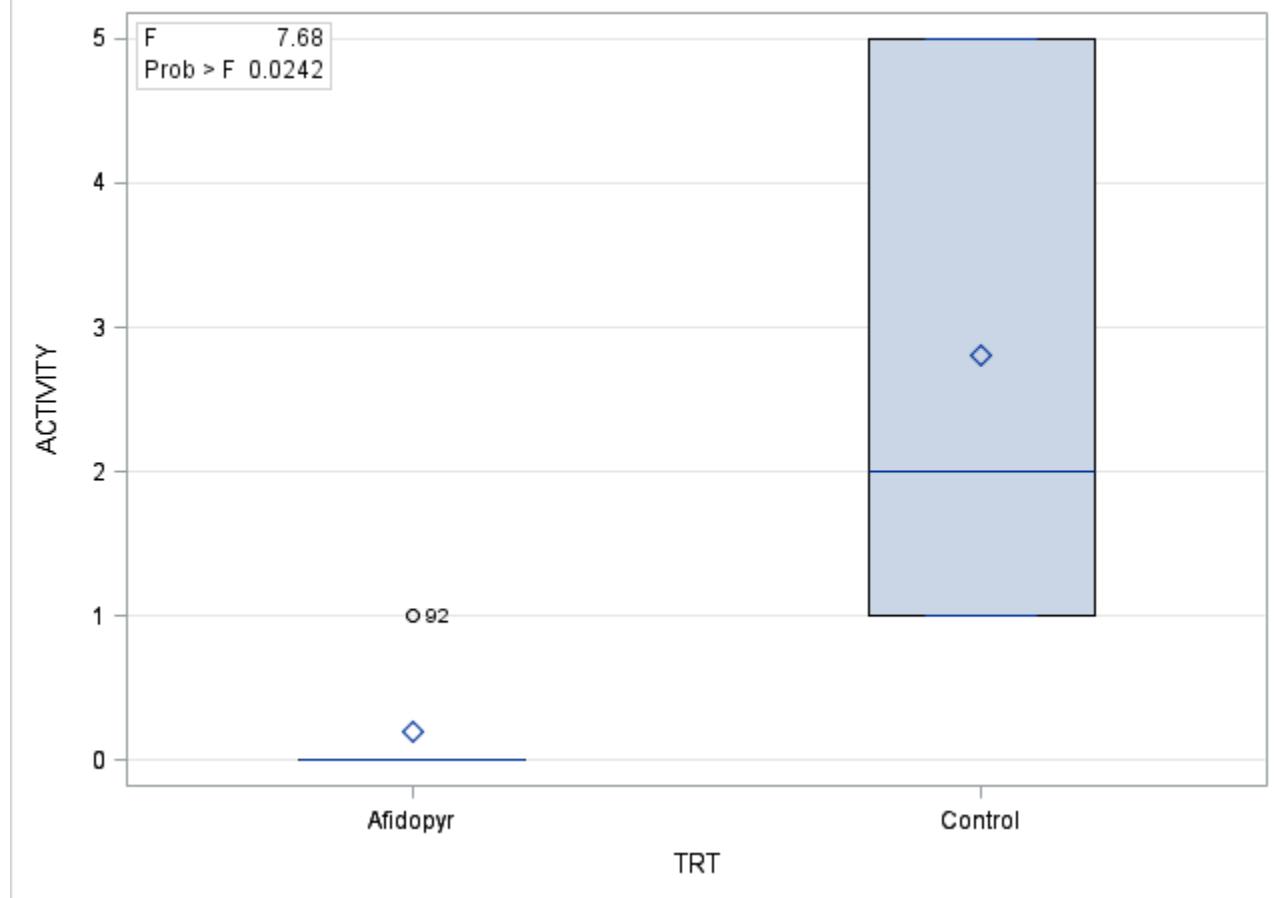
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0aa7**

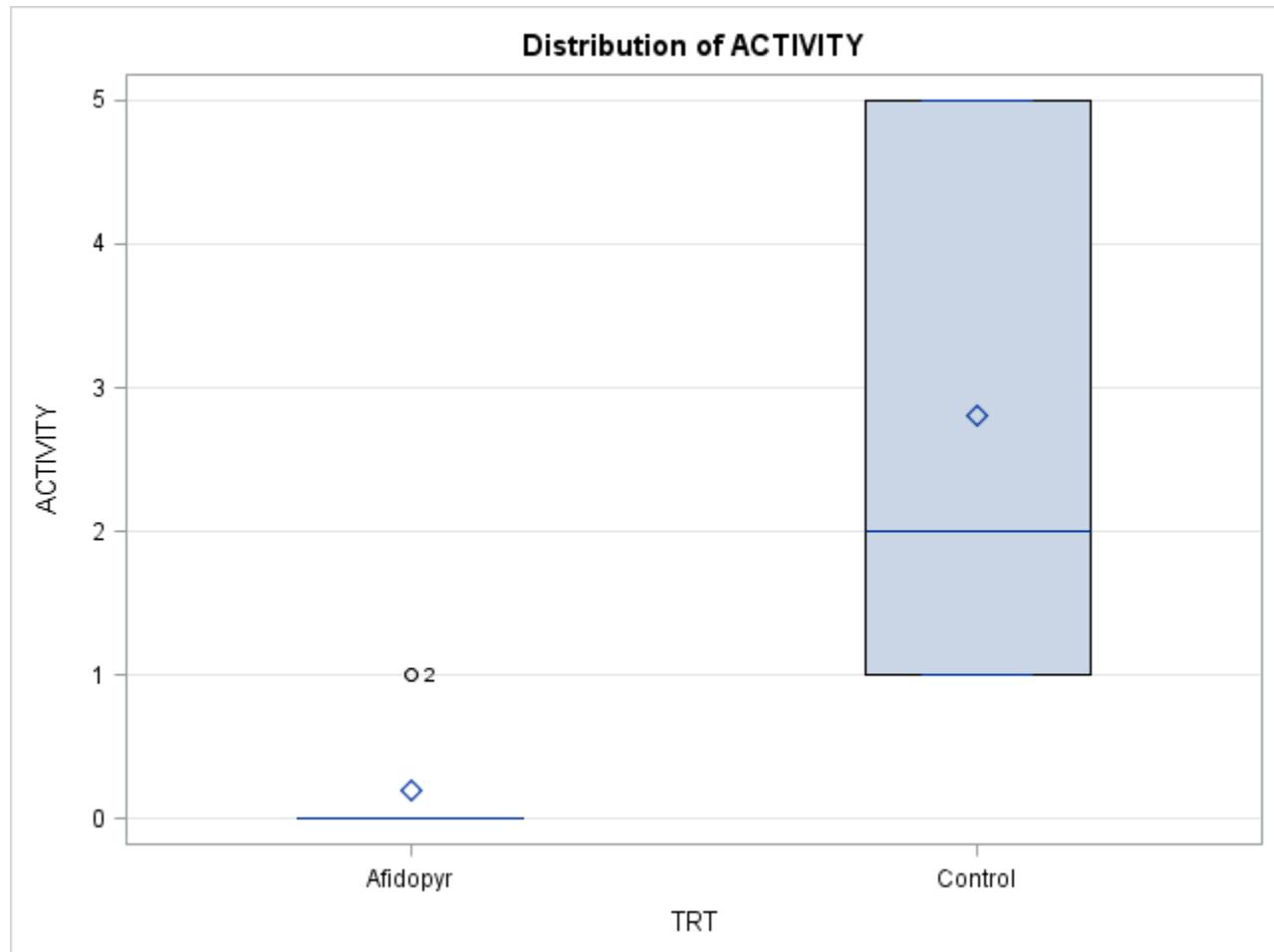
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	16.90000000	16.90000000	7.68	0.0242
<b>Error</b>	8	17.60000000	2.20000000		
<b>Corrected Total</b>	9	34.50000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.489855	98.88265	1.483240	1.500000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	16.90000000	16.90000000	7.68	0.0242

**Distribution of ACTIVITY**



**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0aa7**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0aa7

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.2
Critical Value of t	2.30600
Minimum Significant Difference	2.1632

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	2.8000	5	Control
B	0.2000	5	Afidopyr

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=0ba

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

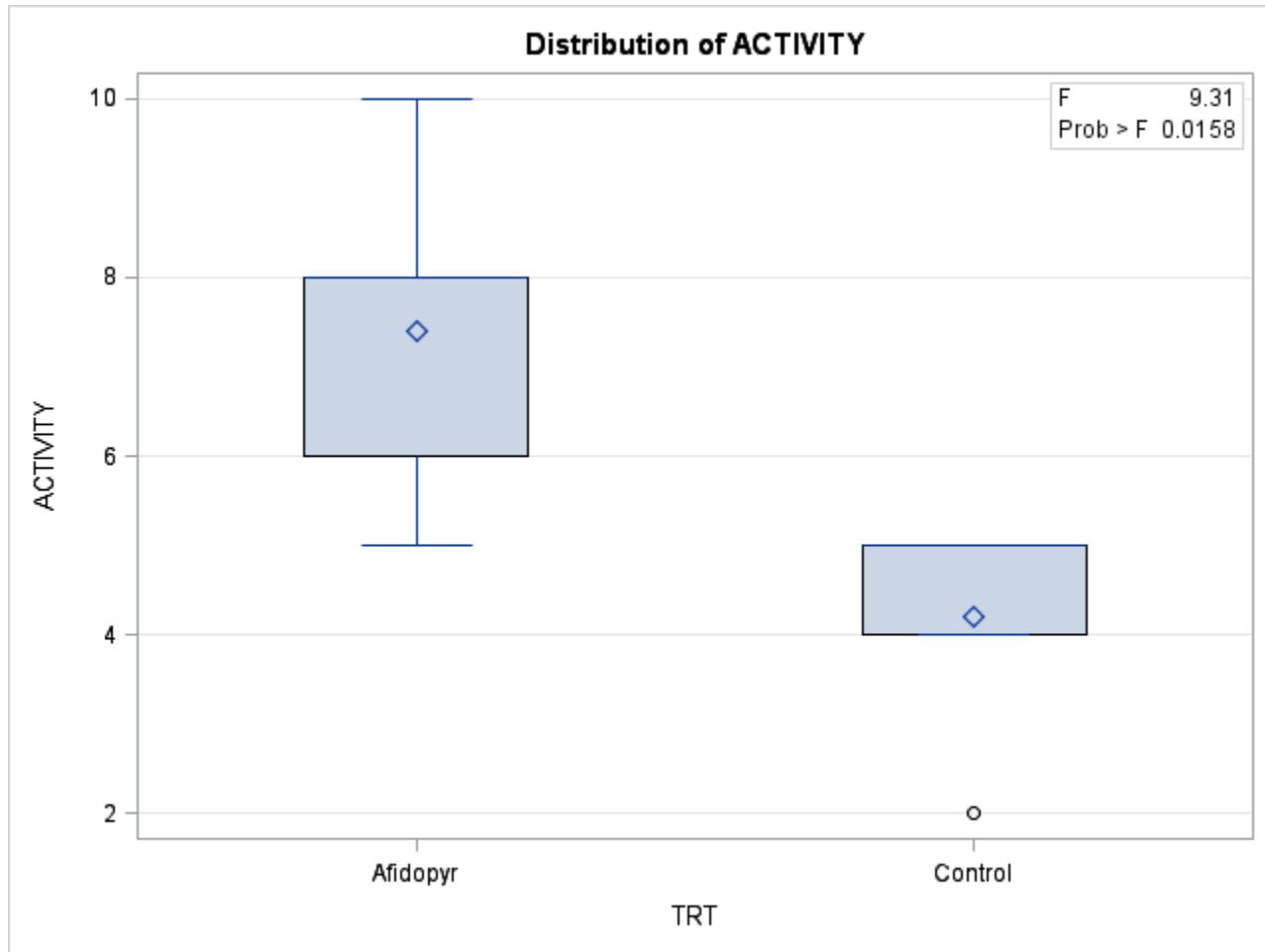
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=0ba**

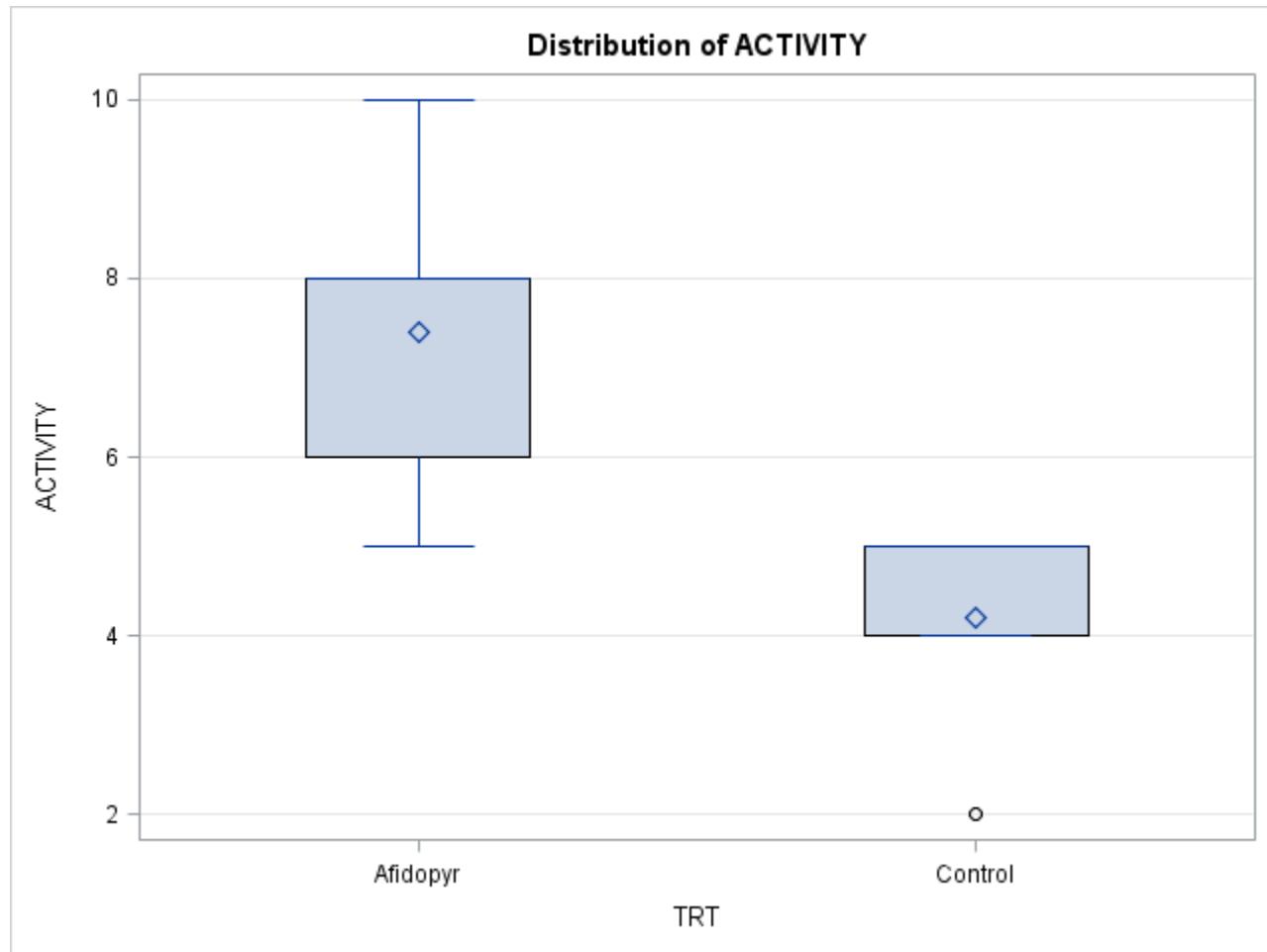
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	25.60000000	25.60000000	9.31	0.0158
<b>Error</b>	8	22.00000000	2.75000000		
<b>Corrected Total</b>	9	47.60000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.537815	28.59159	1.658312	5.800000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	25.60000000	25.60000000	9.31	0.0158





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=0ba**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=0ba

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.75
Critical Value of t	2.30600
Minimum Significant Difference	2.4186

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	7.400	5	Afidopyr
B	4.200	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=1

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

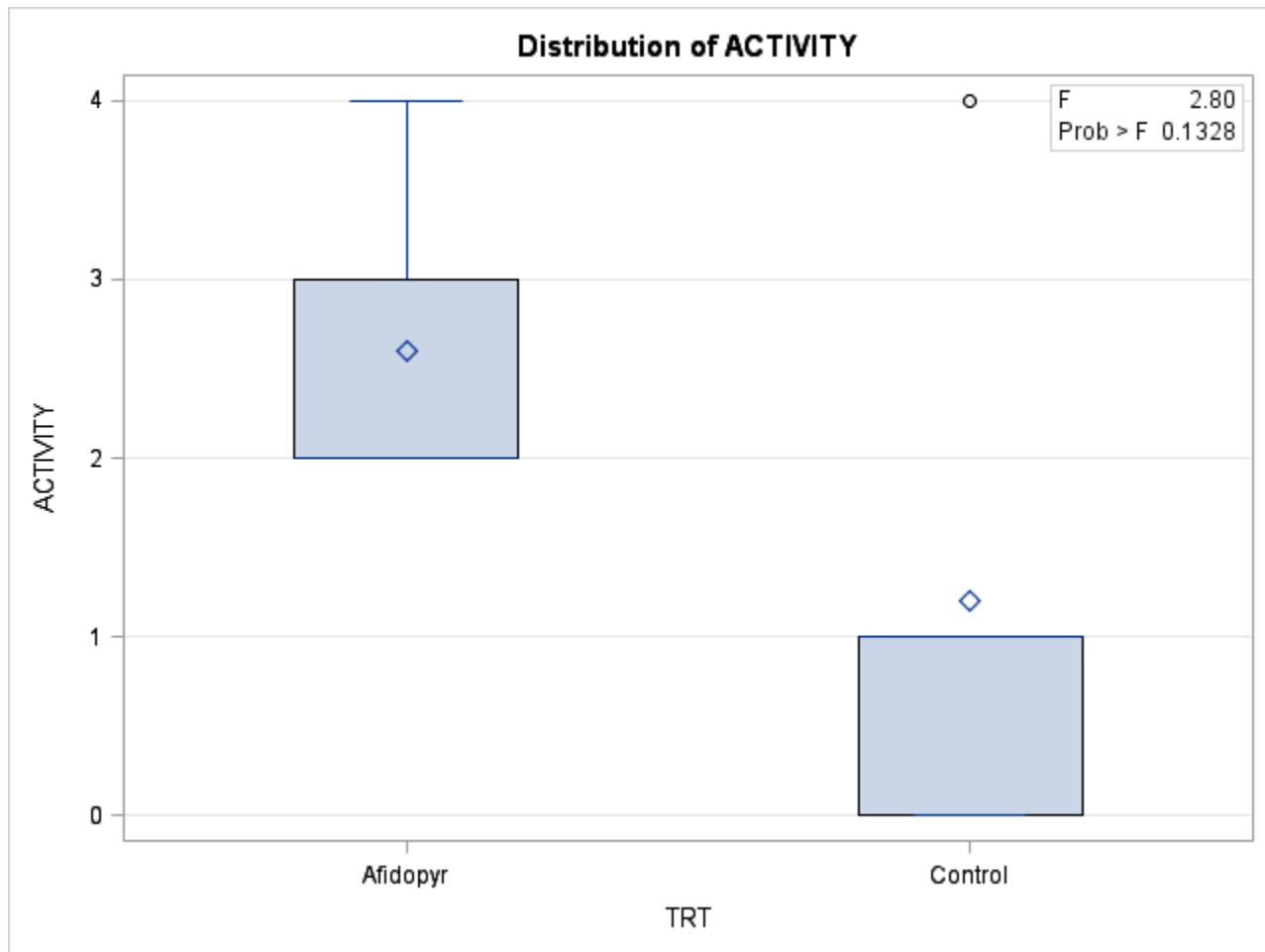
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=1**

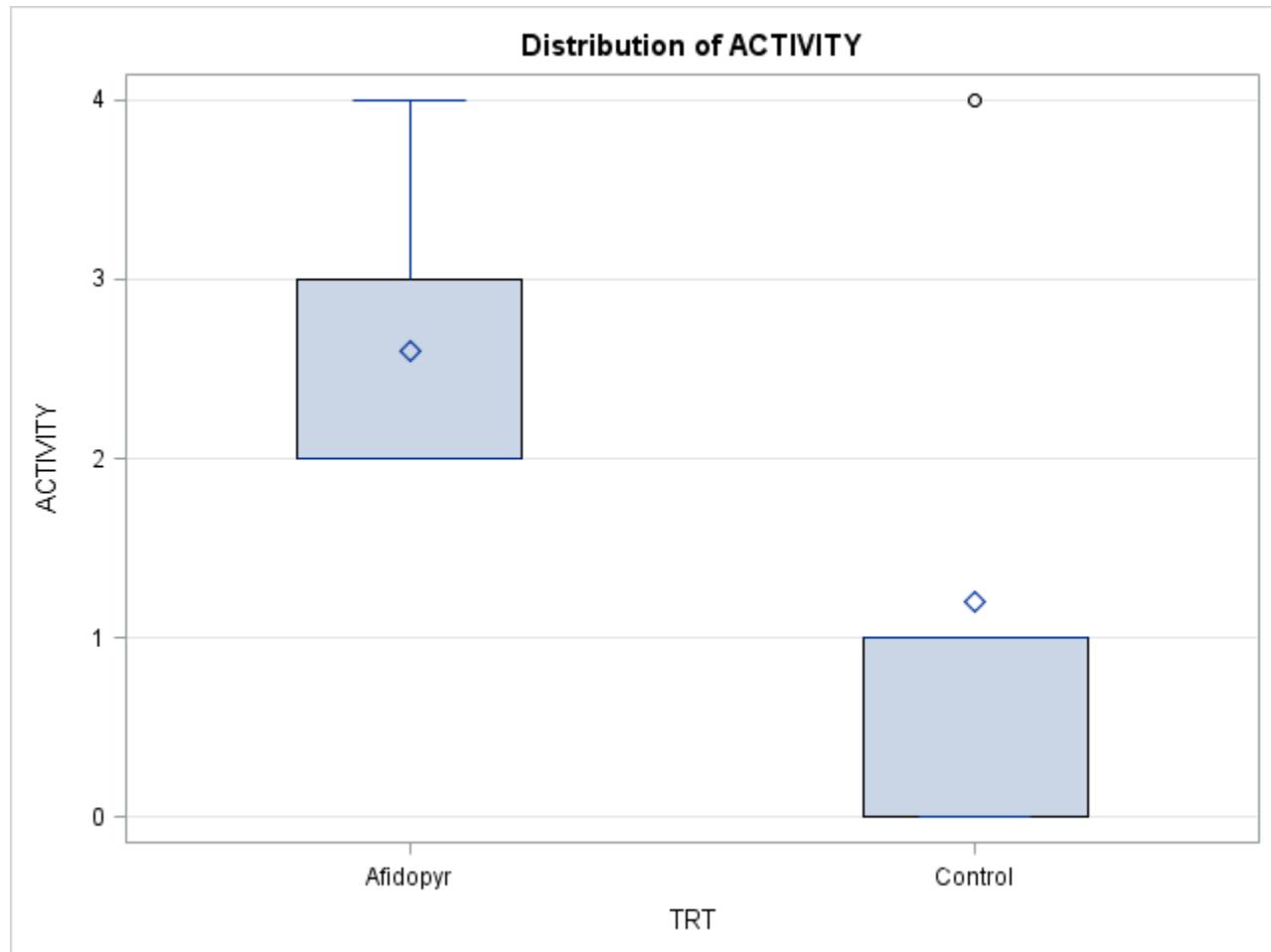
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	4.90000000	4.90000000	2.80	0.1328
<b>Error</b>	8	14.00000000	1.75000000		
<b>Corrected Total</b>	9	18.90000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.259259	69.62503	1.322876	1.900000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	4.90000000	4.90000000	2.80	0.1328





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=1**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

#### Bonferroni (Dunn) t Tests for ACTIVITY

DAT=1

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.75
Critical Value of t	2.30600
Minimum Significant Difference	1.9293

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	2.6000	5	Afidopyr
A			
A	1.2000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=2

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

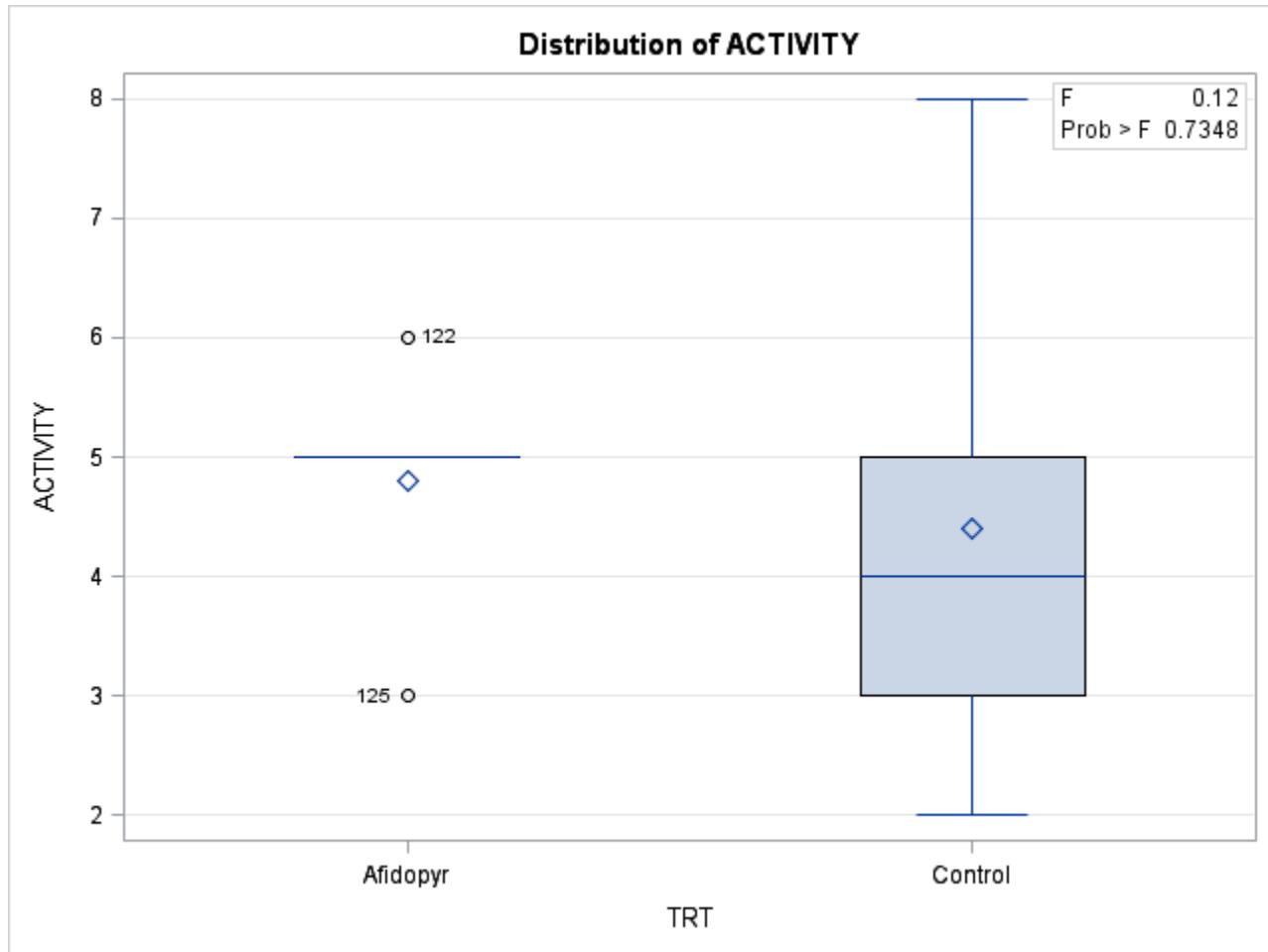
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=2**

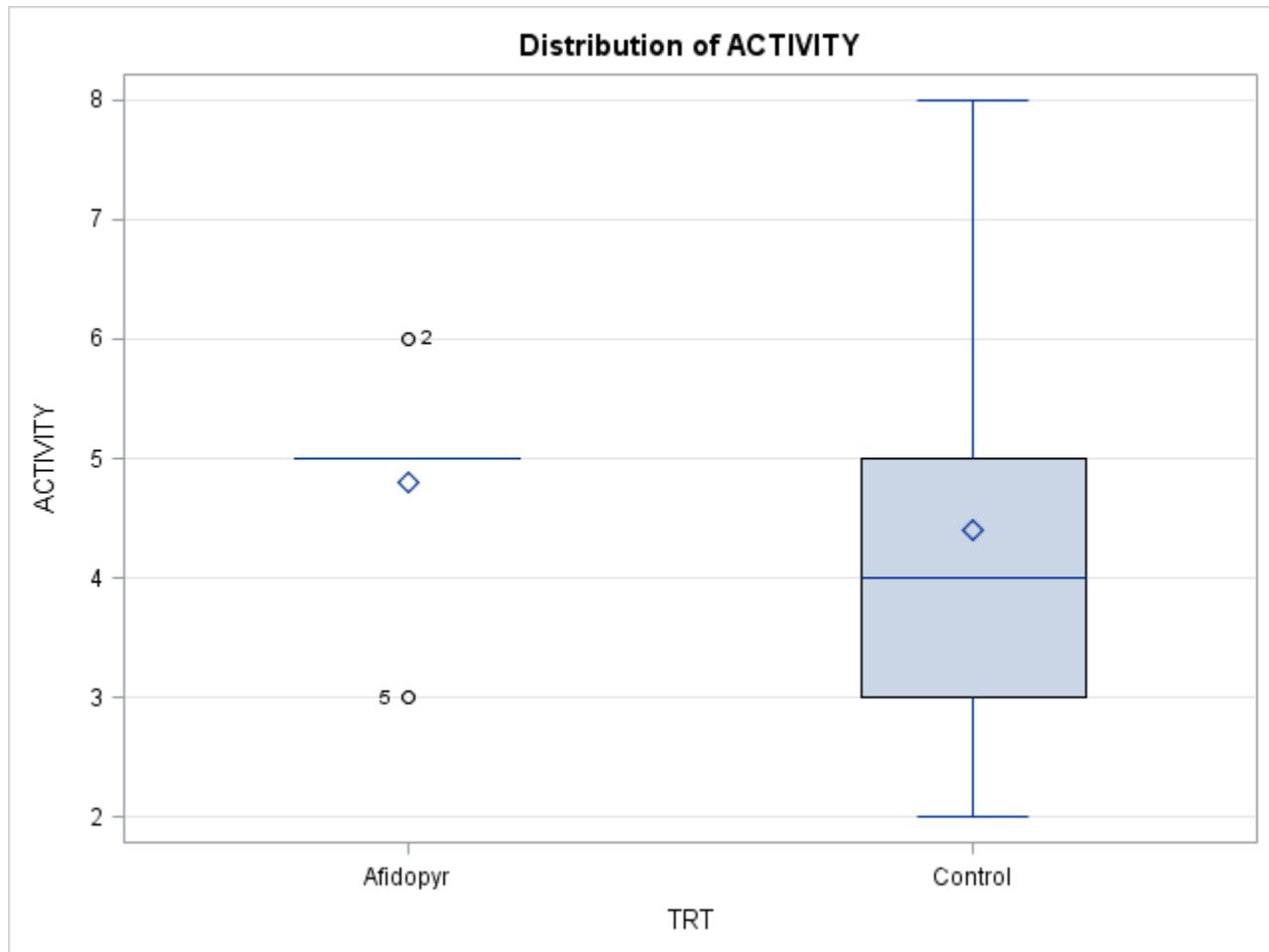
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	0.40000000	0.40000000	0.12	0.7348
<b>Error</b>	8	26.00000000	3.25000000		
<b>Corrected Total</b>	9	26.40000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.015152	39.19077	1.802776	4.600000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	0.40000000	0.40000000	0.12	0.7348





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=2**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=2

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	3.25
Critical Value of t	2.30600
Minimum Significant Difference	2.6292

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	4.800	5	Afidopyr
A			
A	4.400	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

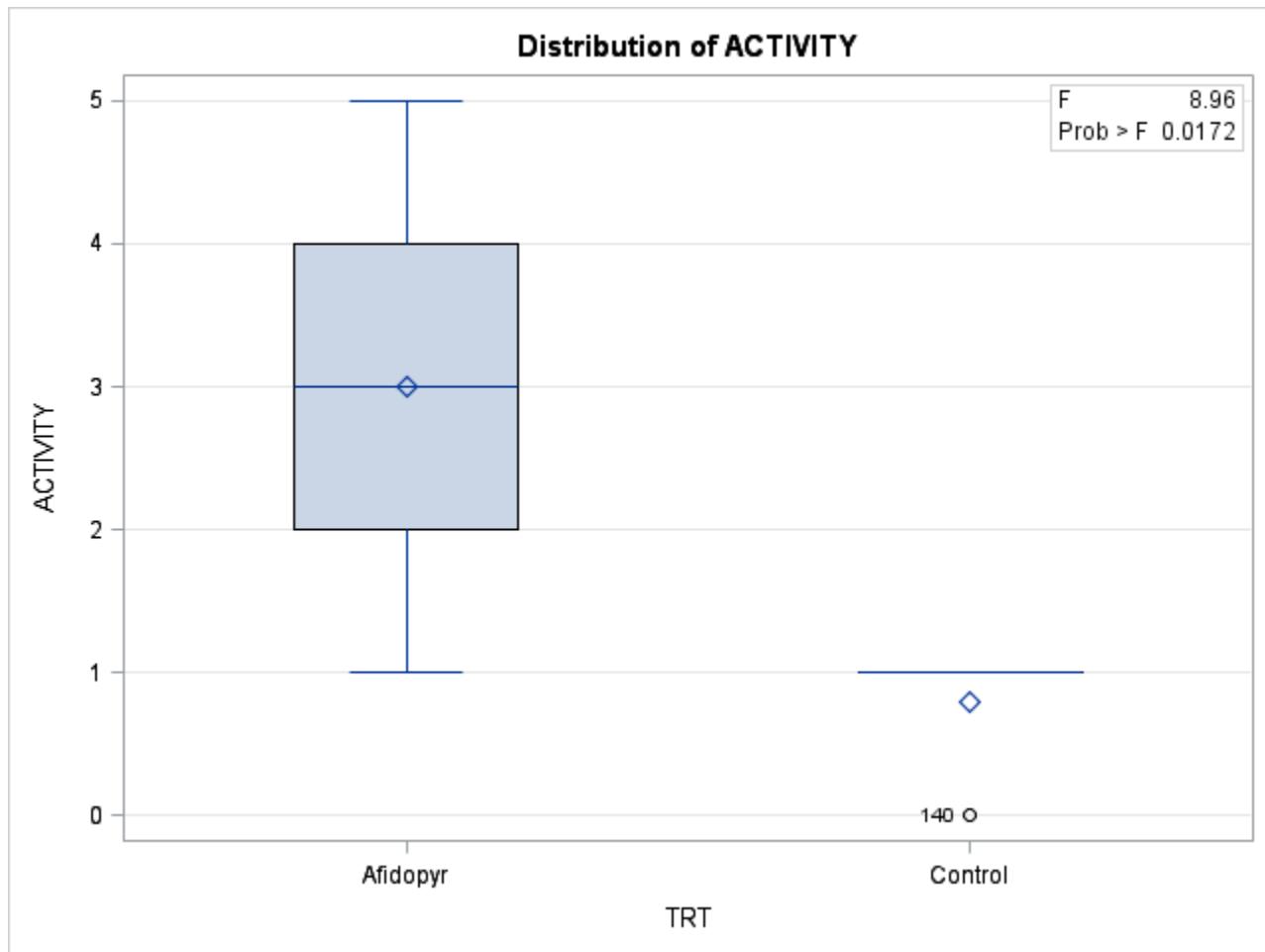
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=3**

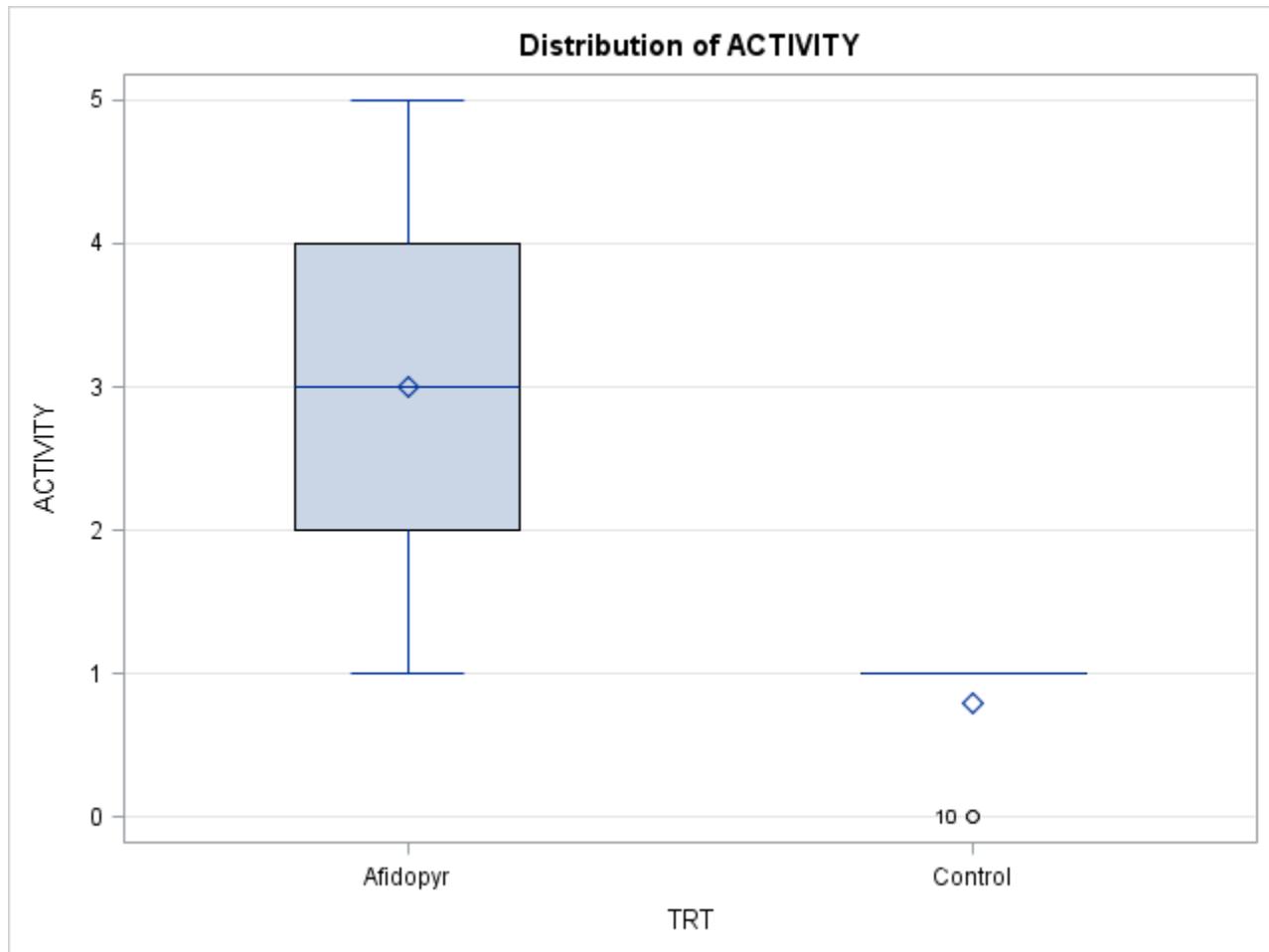
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	12.10000000	12.10000000	8.96	0.0172
<b>Error</b>	8	10.80000000	1.35000000		
<b>Corrected Total</b>	9	22.90000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.528384	61.15237	1.161895	1.900000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	12.10000000	12.10000000	8.96	0.0172





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=3**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.35
Critical Value of t	2.30600
Minimum Significant Difference	1.6946

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	3.0000	5	Afidopyr
B	0.8000	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

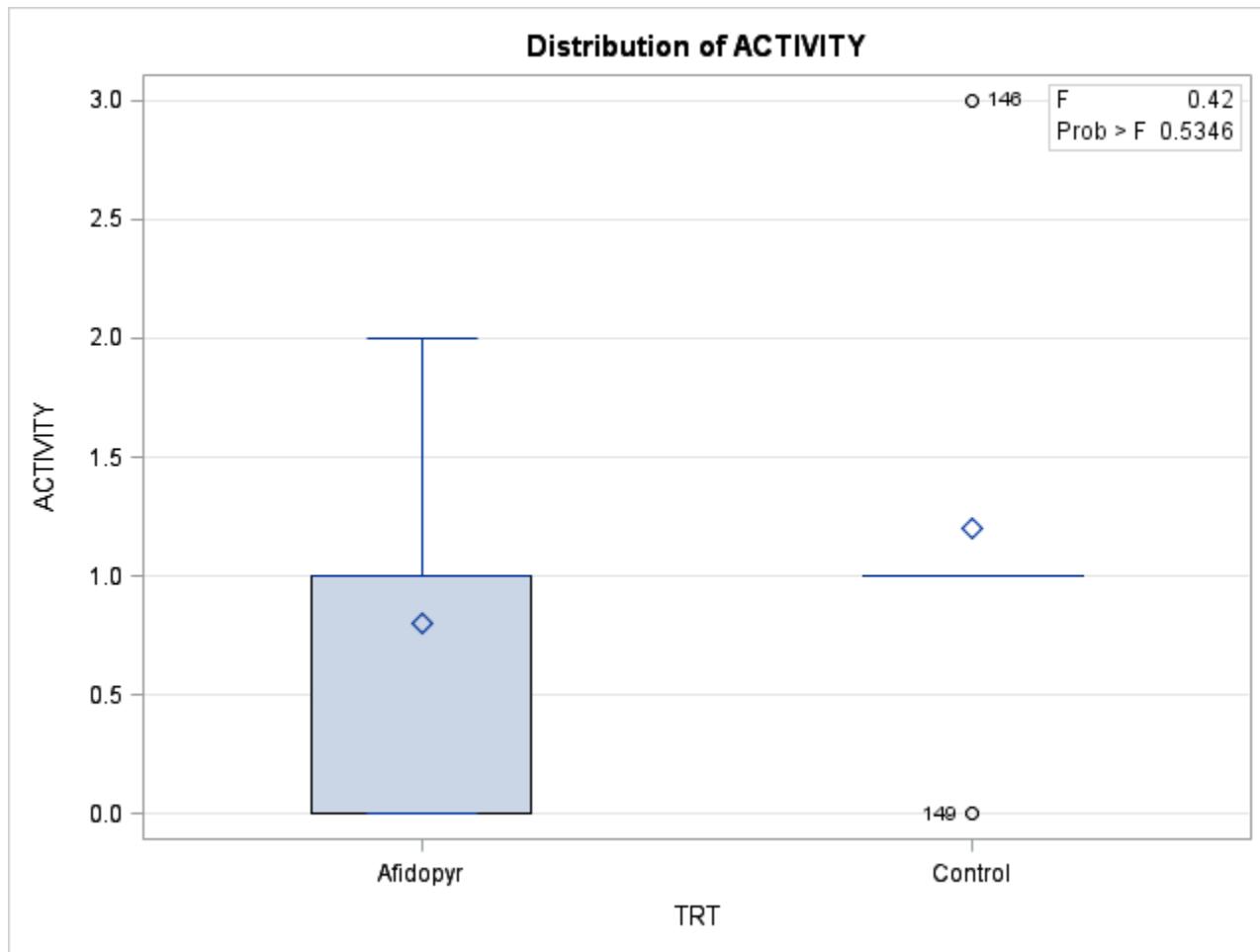
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=4**

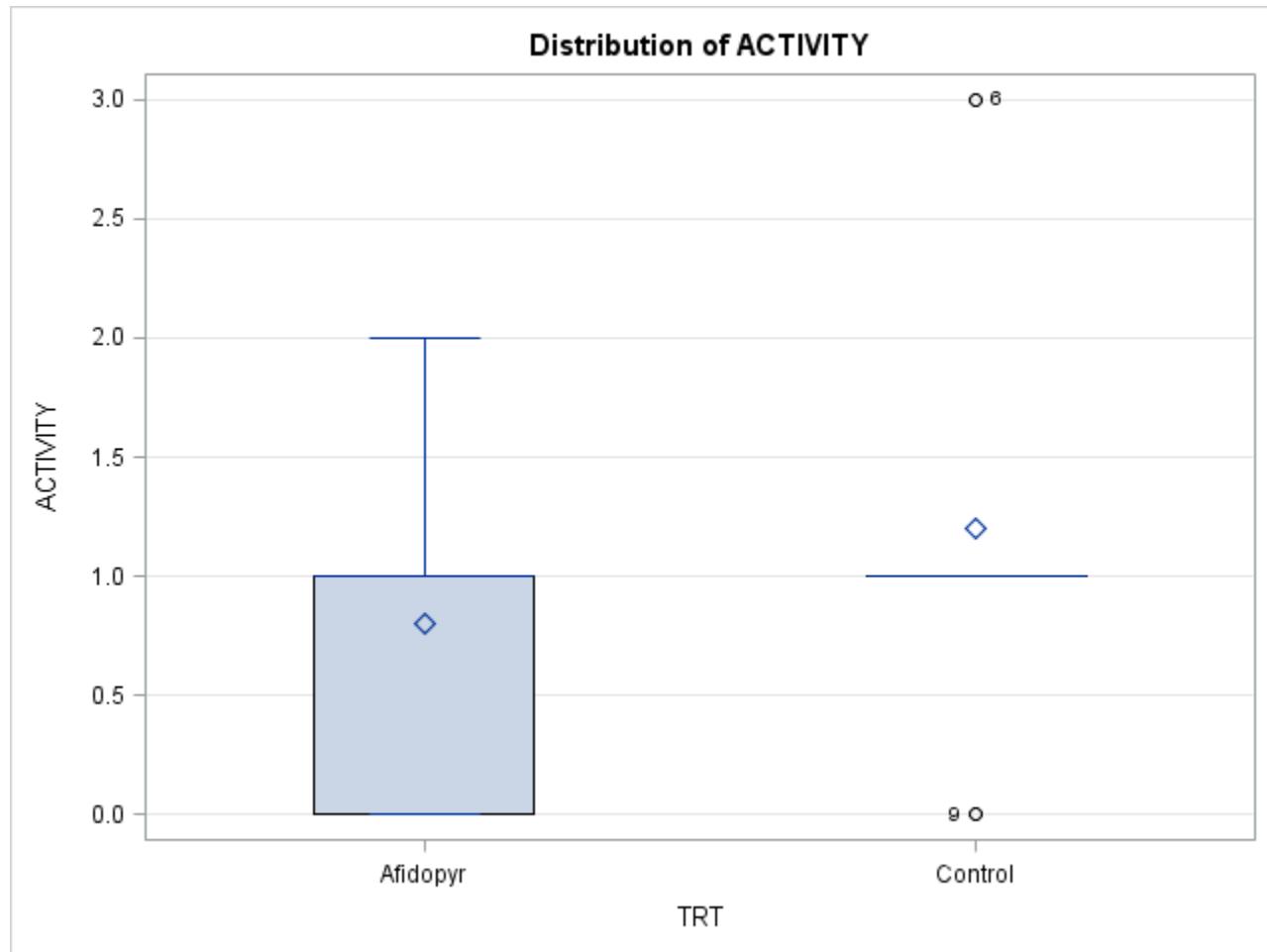
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	0.40000000	0.40000000	0.42	0.5346
<b>Error</b>	8	7.60000000	0.95000000		
<b>Corrected Total</b>	9	8.00000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.050000	97.46794	0.974679	1.000000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	0.40000000	0.40000000	0.42	0.5346





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=4**

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## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.95
Critical Value of t	2.30600
Minimum Significant Difference	1.4215

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	1.2000	5	Control
A			
A	0.8000	5	Afidopyr

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=5

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

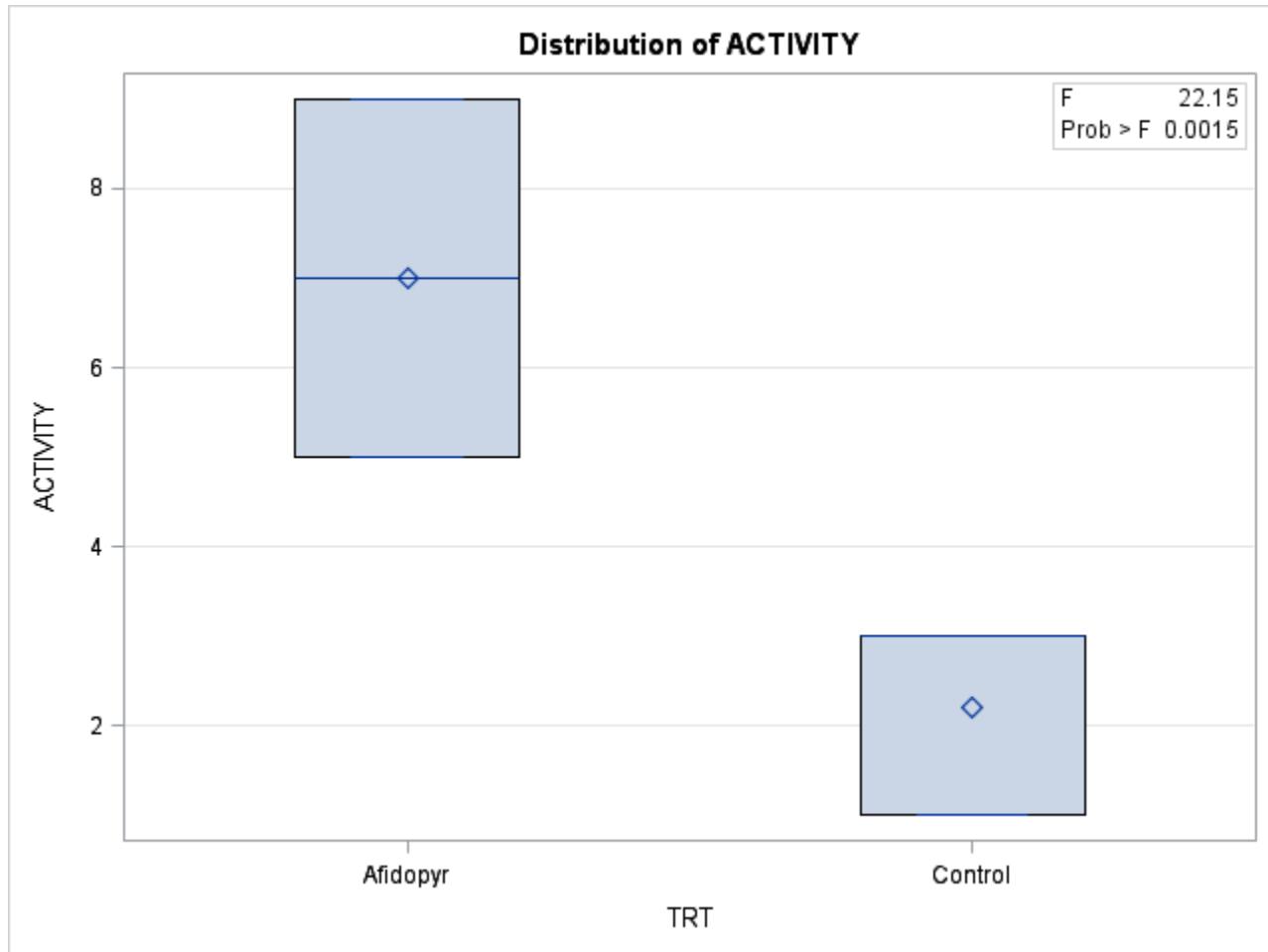
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=5**

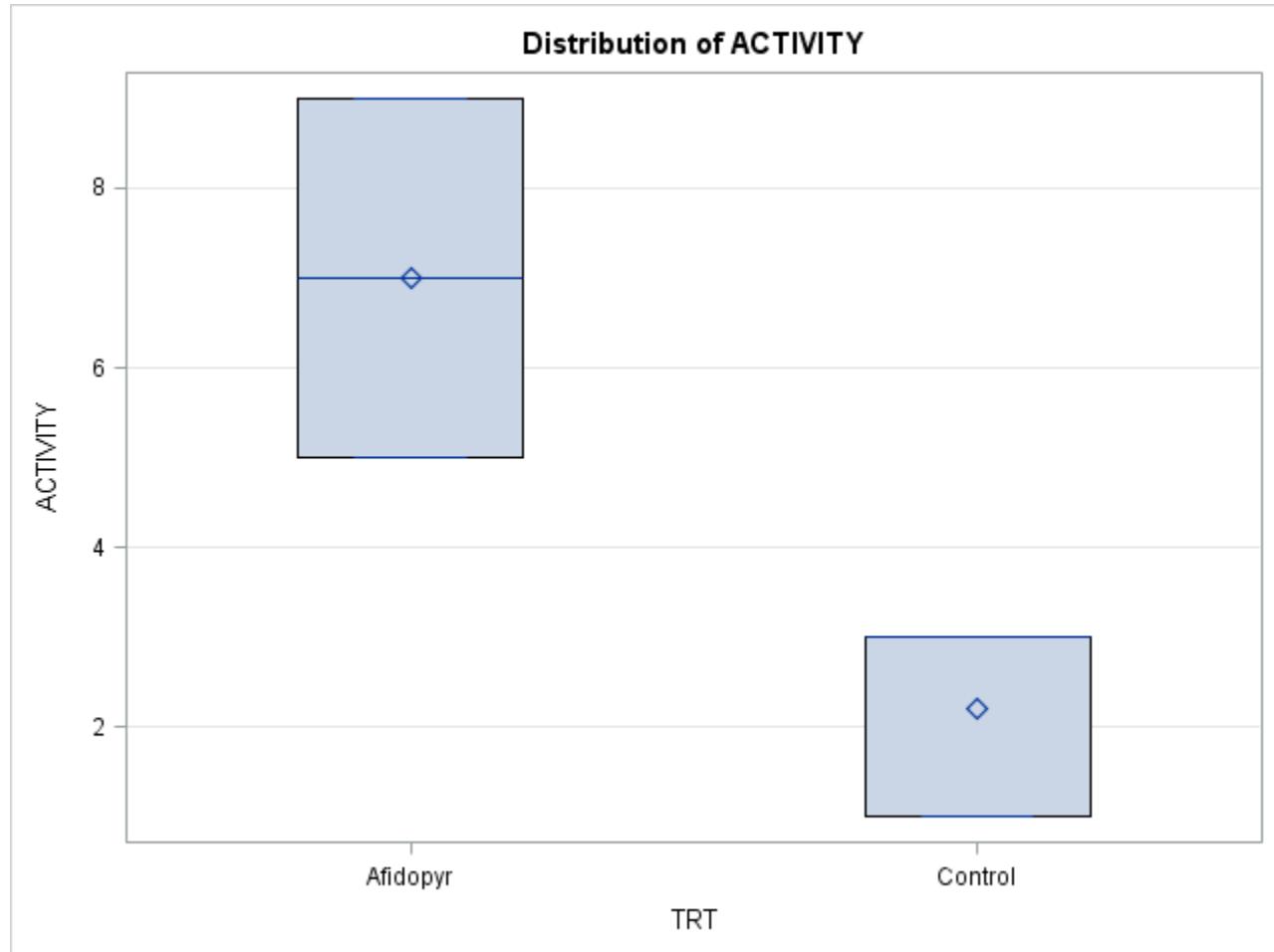
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	57.60000000	57.60000000	22.15	0.0015
<b>Error</b>	8	20.80000000	2.60000000		
<b>Corrected Total</b>	9	78.40000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.734694	35.05329	1.612452	4.600000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	57.60000000	57.60000000	22.15	0.0015





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=5**

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## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=5

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	2.6
Critical Value of t	2.30600
Minimum Significant Difference	2.3517

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	7.000	5	Afidopyr
B	2.200	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=6

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

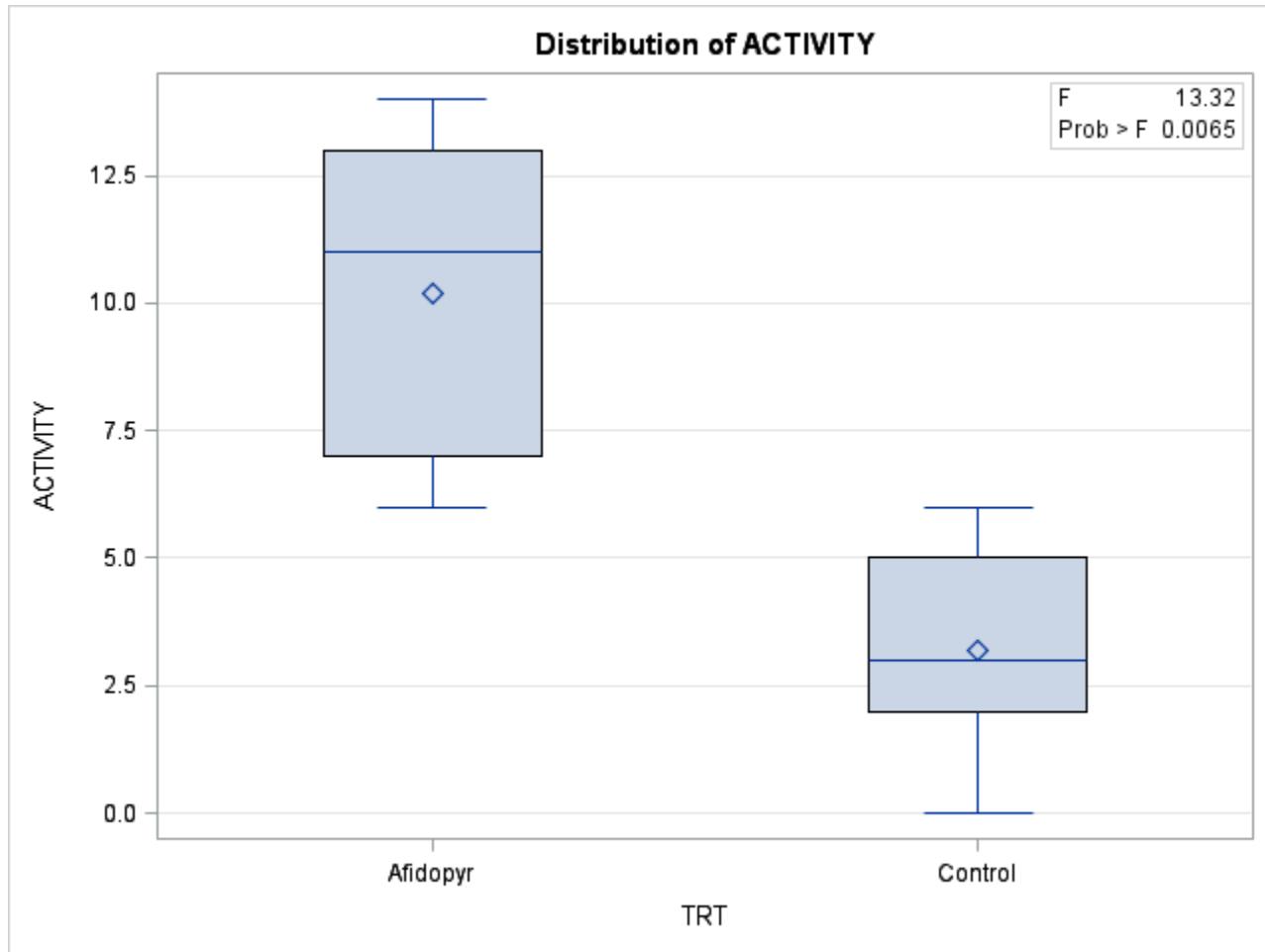
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=6**

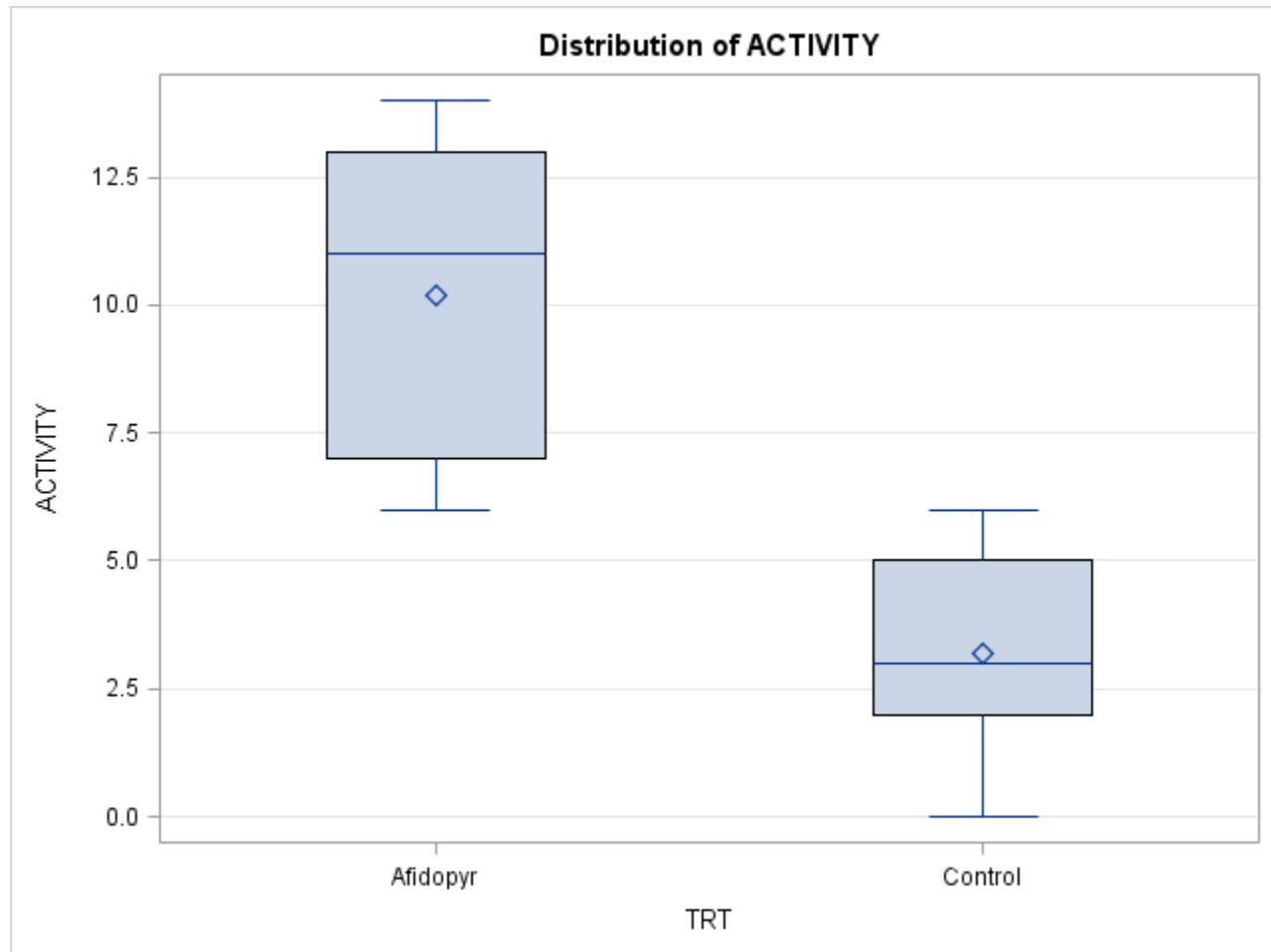
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	122.5000000	122.5000000	13.32	0.0065
<b>Error</b>	8	73.6000000	9.2000000		
<b>Corrected Total</b>	9	196.1000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.624681	45.27090	3.033150	6.700000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	122.5000000	122.5000000	13.32	0.0065





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=6**

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=6

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	9.2
Critical Value of t	2.30600
Minimum Significant Difference	4.4237

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	10.200	5	Afidopyr
B	3.200	5	Control

---

## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

### The ANOVA Procedure

DAT=7

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

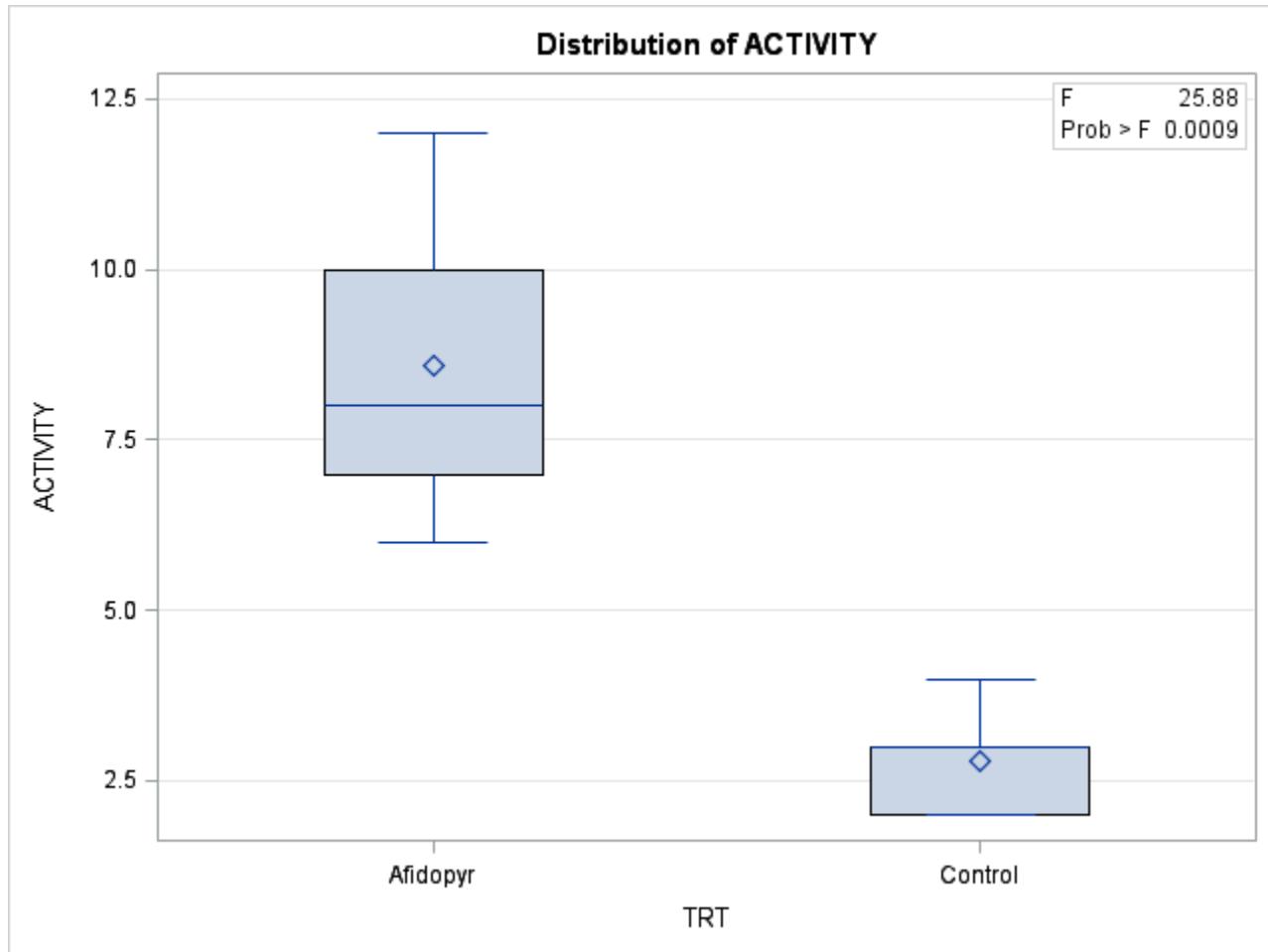
Number of Observations Read	10
Number of Observations Used	10

**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****Dependent Variable: ACTIVITY****DAT=7**

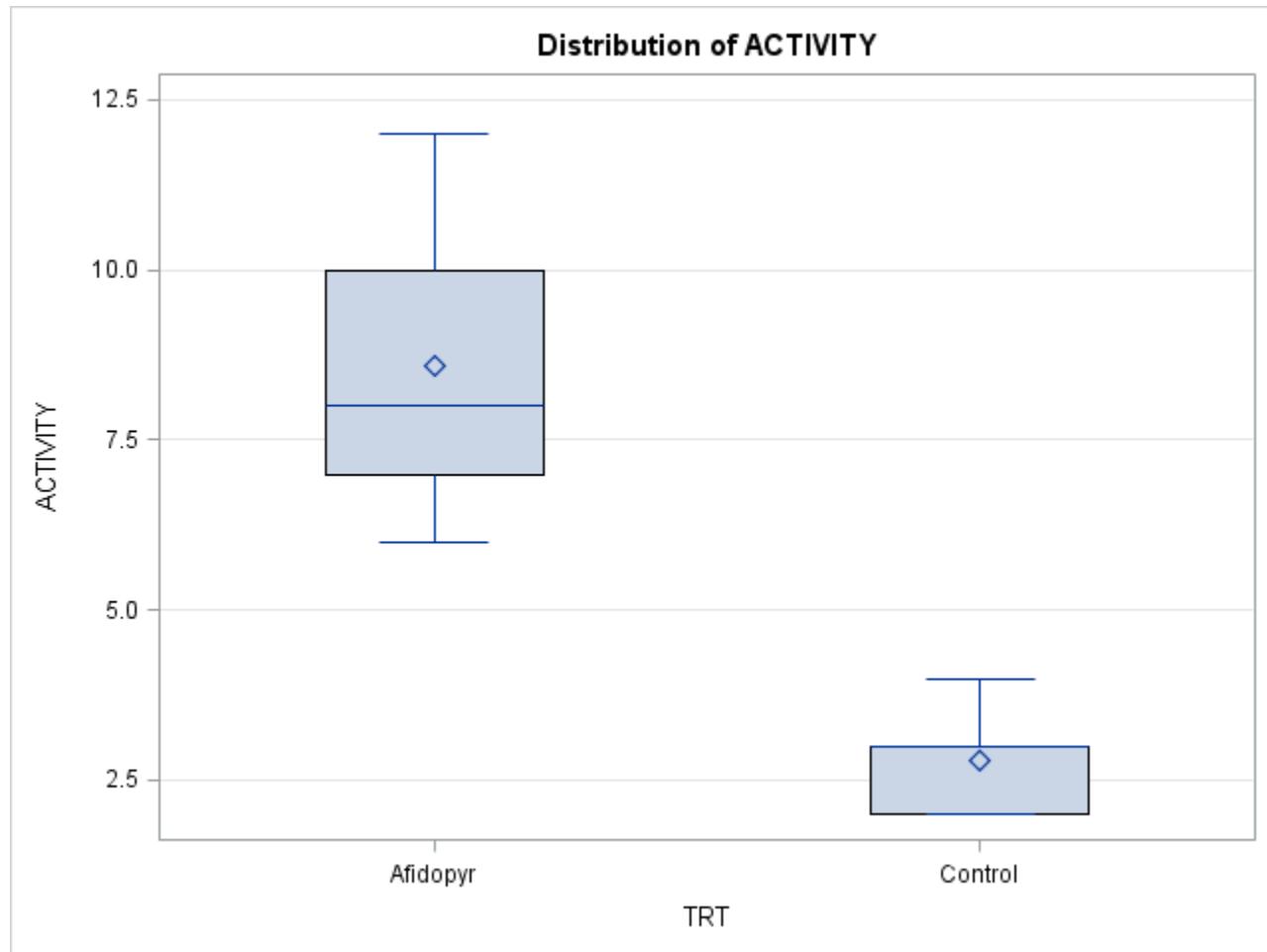
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	84.1000000	84.1000000	25.88	0.0009
<b>Error</b>	8	26.0000000	3.2500000		
<b>Corrected Total</b>	9	110.1000000			

R-Square	Coeff Var	Root MSE	ACTIVITY Mean
0.763851	31.62764	1.802776	5.700000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	84.10000000	84.10000000	25.88	0.0009





**ANOVA FOR FORAGING ACTIVITY AT EACH DAT****The ANOVA Procedure****DAT=7**

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## ANOVA FOR FORAGING ACTIVITY AT EACH DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for ACTIVITY

DAT=7

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	3.25
Critical Value of t	2.30600
Minimum Significant Difference	2.6292

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	8.600	5	Afidopyr
B	2.800	5	Control

### SUMMARY OF NUMBER OF CELLS BY MATRIX

<b>Obs</b>	<b>TRT</b>	<b>DAT</b>	<b>MATRIX</b>	<b>_TYPE_</b>	<b>_FREQ_</b>	<b>MEAN</b>	<b>STD</b>
<b>1</b>	Afidopyr	-3	Eggs	0	4	4650.00	1417.74
<b>2</b>	Afidopyr	-3	Honey	0	4	12100.00	4823.55
<b>3</b>	Afidopyr	-3	Larvae	0	4	8500.00	4371.12
<b>4</b>	Afidopyr	-3	Male	0	4	800.00	1600.00
<b>5</b>	Afidopyr	-3	Pollen	0	4	2250.00	789.51
<b>6</b>	Afidopyr	-3	Pupae	0	4	11100.00	4646.15
<b>7</b>	Afidopyr	11	Eggs	0	4	306250.00	599037.61
<b>8</b>	Afidopyr	11	Honey	0	4	8500.00	2230.10
<b>9</b>	Afidopyr	11	Larvae	0	4	12000.00	4584.03
<b>10</b>	Afidopyr	11	Male	0	4	0.00	0.00
<b>11</b>	Afidopyr	11	Pollen	0	4	2300.00	808.29
<b>12</b>	Afidopyr	11	Pupae	0	4	15200.00	5161.40
<b>13</b>	Afidopyr	18	Eggs	0	4	6250.00	1087.81
<b>14</b>	Afidopyr	18	Honey	0	4	6200.00	1211.06
<b>15</b>	Afidopyr	18	Larvae	0	4	9750.00	2217.36
<b>16</b>	Afidopyr	18	Male	0	4	0.00	0.00
<b>17</b>	Afidopyr	18	Pollen	0	4	2500.00	2253.89
<b>18</b>	Afidopyr	18	Pupae	0	4	17600.00	3588.87
<b>19</b>	Afidopyr	25	Eggs	0	4	4300.00	871.78
<b>20</b>	Afidopyr	25	Honey	0	4	5100.00	1390.44
<b>21</b>	Afidopyr	25	Larvae	0	4	9550.00	1611.42
<b>22</b>	Afidopyr	25	Male	0	4	0.00	0.00
<b>23</b>	Afidopyr	25	Pollen	0	4	1750.00	1330.41
<b>24</b>	Afidopyr	25	Pupae	0	4	16100.00	2391.65
<b>25</b>	Afidopyr	4	Eggs	0	4	6300.00	2029.78
<b>26</b>	Afidopyr	4	Honey	0	4	8800.00	938.08
<b>27</b>	Afidopyr	4	Larvae	0	4	7150.00	2264.95
<b>28</b>	Afidopyr	4	Male	0	4	0.00	0.00
<b>29</b>	Afidopyr	4	Pollen	0	4	2250.00	525.99
<b>30</b>	Afidopyr	4	Pupae	0	4	14400.00	5207.69
<b>31</b>	Control	-3	Eggs	0	4	5450.00	1660.32
<b>32</b>	Control	-3	Honey	0	4	8525.00	2241.09

<b>33</b>	Control	-3	Larvae	0	4	7800.00	1336.66
<b>34</b>	Control	-3	Male	0	4	0.00	0.00
<b>35</b>	Control	-3	Pollen	0	4	3000.00	848.53
<b>36</b>	Control	-3	Pupae	0	4	11350.00	5588.98
<b>37</b>	Control	11	Eggs	0	4	5750.00	2264.95
<b>38</b>	Control	11	Honey	0	4	6200.00	6079.47
<b>39</b>	Control	11	Larvae	0	4	10950.00	2241.28
<b>40</b>	Control	11	Male	0	4	115.00	162.63
<b>41</b>	Control	11	Pollen	0	4	2850.00	1857.42
<b>42</b>	Control	11	Pupae	0	4	17300.00	3564.64
<b>43</b>	Control	18	Eggs	0	4	4700.00	3151.72
<b>44</b>	Control	18	Honey	0	4	2600.50	2190.40
<b>45</b>	Control	18	Larvae	0	4	8450.00	4054.22
<b>46</b>	Control	18	Male	0	4	143.75	172.50
<b>47</b>	Control	18	Pollen	0	4	2050.00	1340.40
<b>48</b>	Control	18	Pupae	0	4	19100.00	2655.81
<b>49</b>	Control	25	Eggs	0	3	4933.33	1616.58
<b>50</b>	Control	25	Honey	0	3	1933.33	2663.33
<b>51</b>	Control	25	Larvae	0	3	8800.00	1637.07
<b>52</b>	Control	25	Male	0	3	38.33	66.40
<b>53</b>	Control	25	Pollen	0	3	1000.00	529.15
<b>54</b>	Control	25	Pupae	0	3	15866.67	305.51
<b>55</b>	Control	4	Eggs	0	4	6325.00	699.40
<b>56</b>	Control	4	Honey	0	4	6350.00	3205.72
<b>57</b>	Control	4	Larvae	0	4	9000.00	2438.58
<b>58</b>	Control	4	Male	0	4	86.25	172.50
<b>59</b>	Control	4	Pollen	0	4	3100.00	774.60
<b>60</b>	Control	4	Pupae	0	4	13700.00	4309.68

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## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Eggs DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

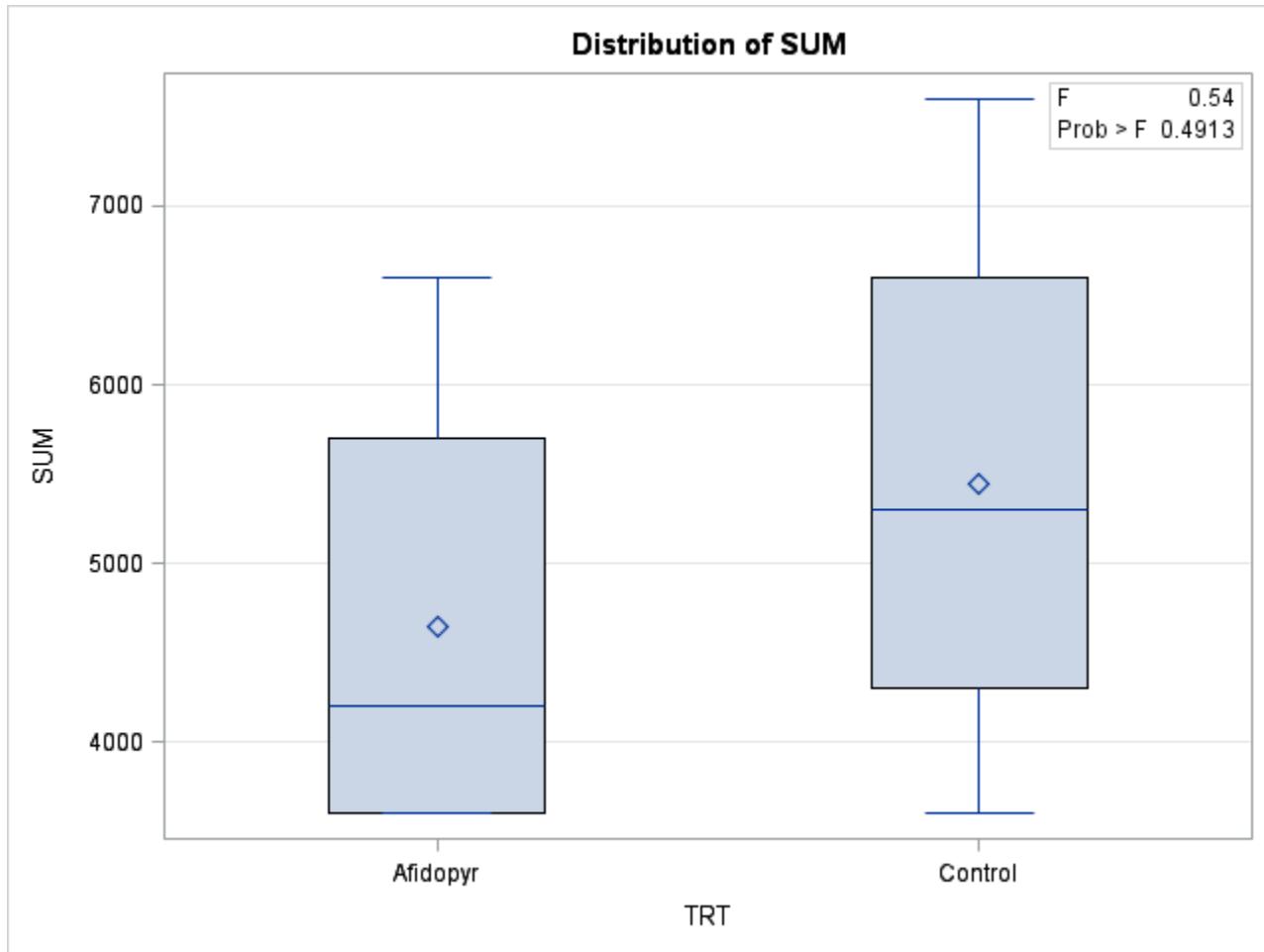
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Eggs DAT=-3**

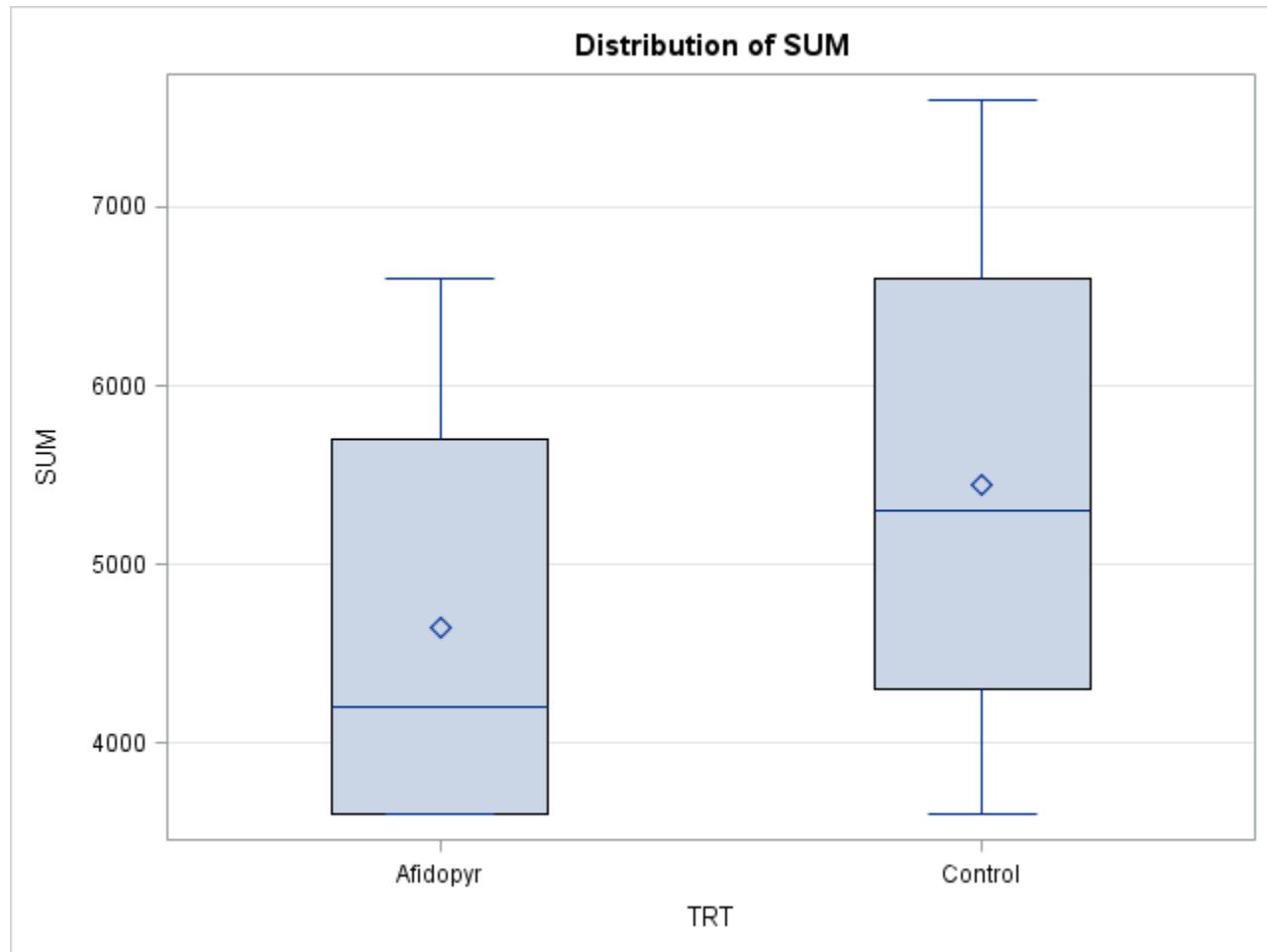
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1280000.00	1280000.00	0.54	0.4913
<b>Error</b>	6	14300000.00	2383333.33		
<b>Corrected Total</b>	7	15580000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.082157	30.57039	1543.805	5050.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1280000.000	1280000.000	0.54	0.4913





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Eggs DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Eggs DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	2383333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	2671.1

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	5450	4	Control
A			
A	4650	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Eggs DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

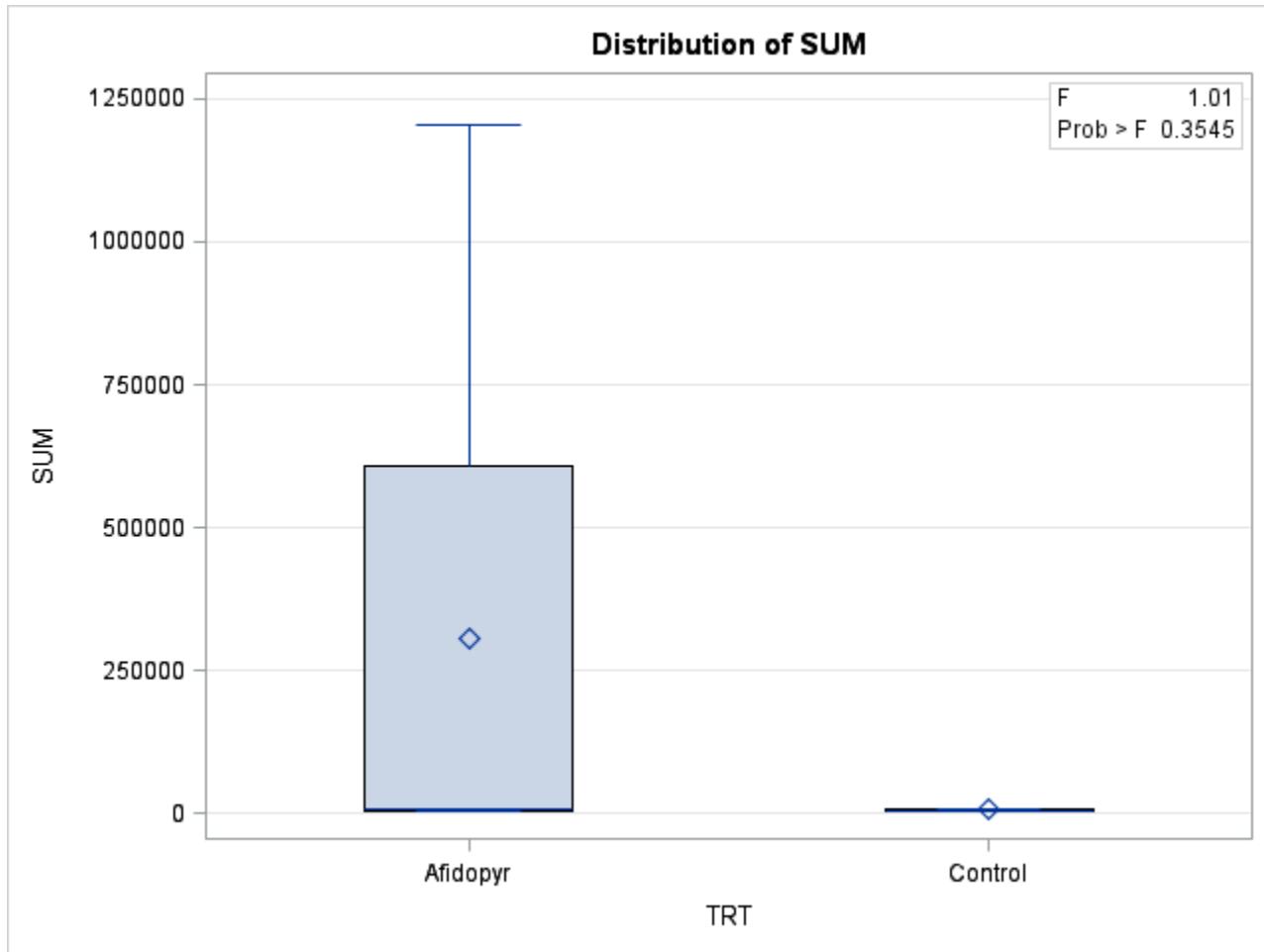
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Eggs DAT=11**

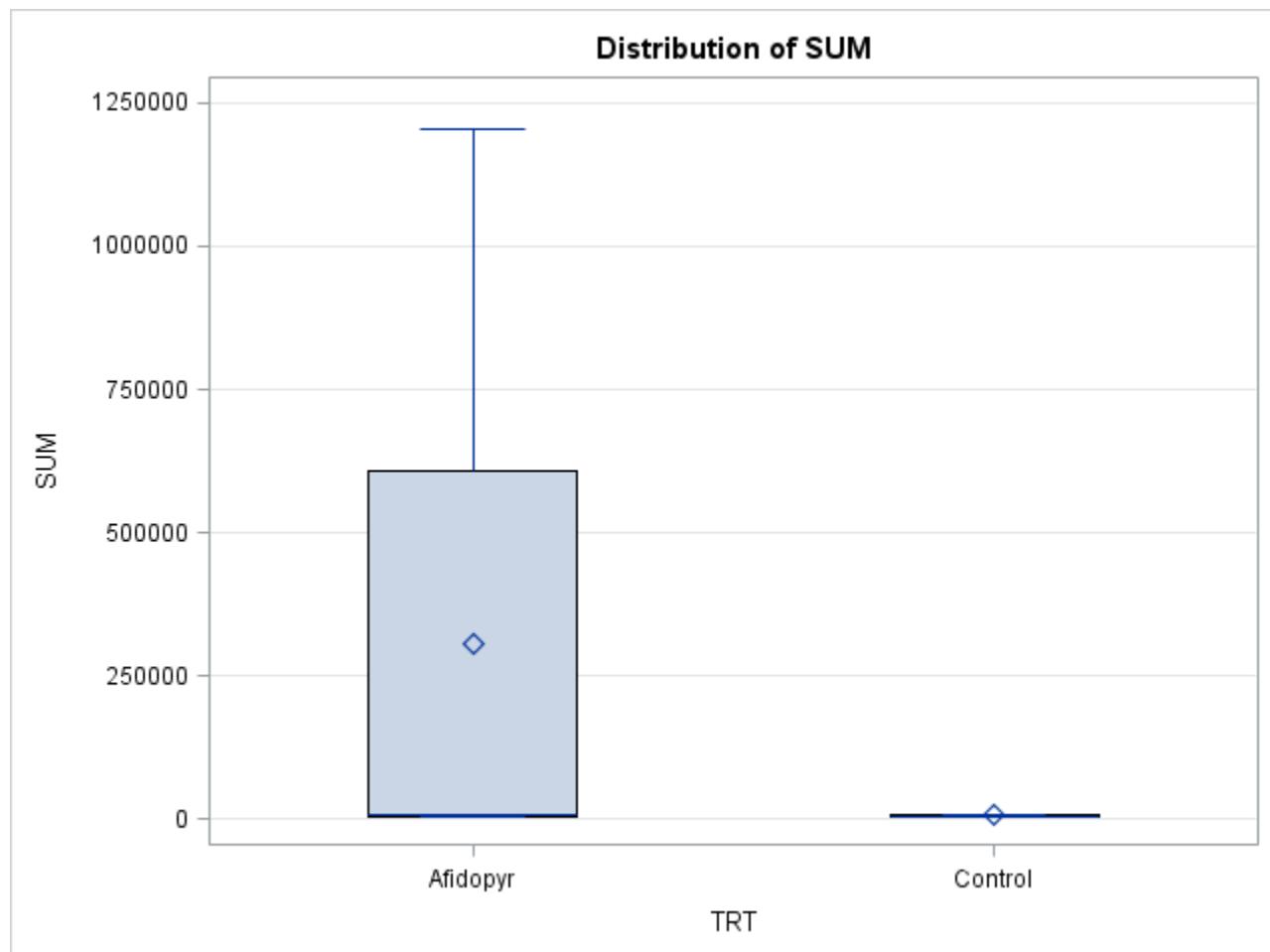
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	180600500000	180600500000	1.01	0.3545
<b>Error</b>	6	1.0765536E12	179425596667		
<b>Corrected Total</b>	7	1.2571541E12			

R-Square	Coeff Var	Root MSE	SUM Mean
0.143658	271.5299	423586.6	156000.0

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	180600500000	180600500000	1.01	0.3545





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Eggs DAT=11**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Eggs DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	1.794E11
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	732901

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	306250	4	Afidopyr
A			
A	5750	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Eggs DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

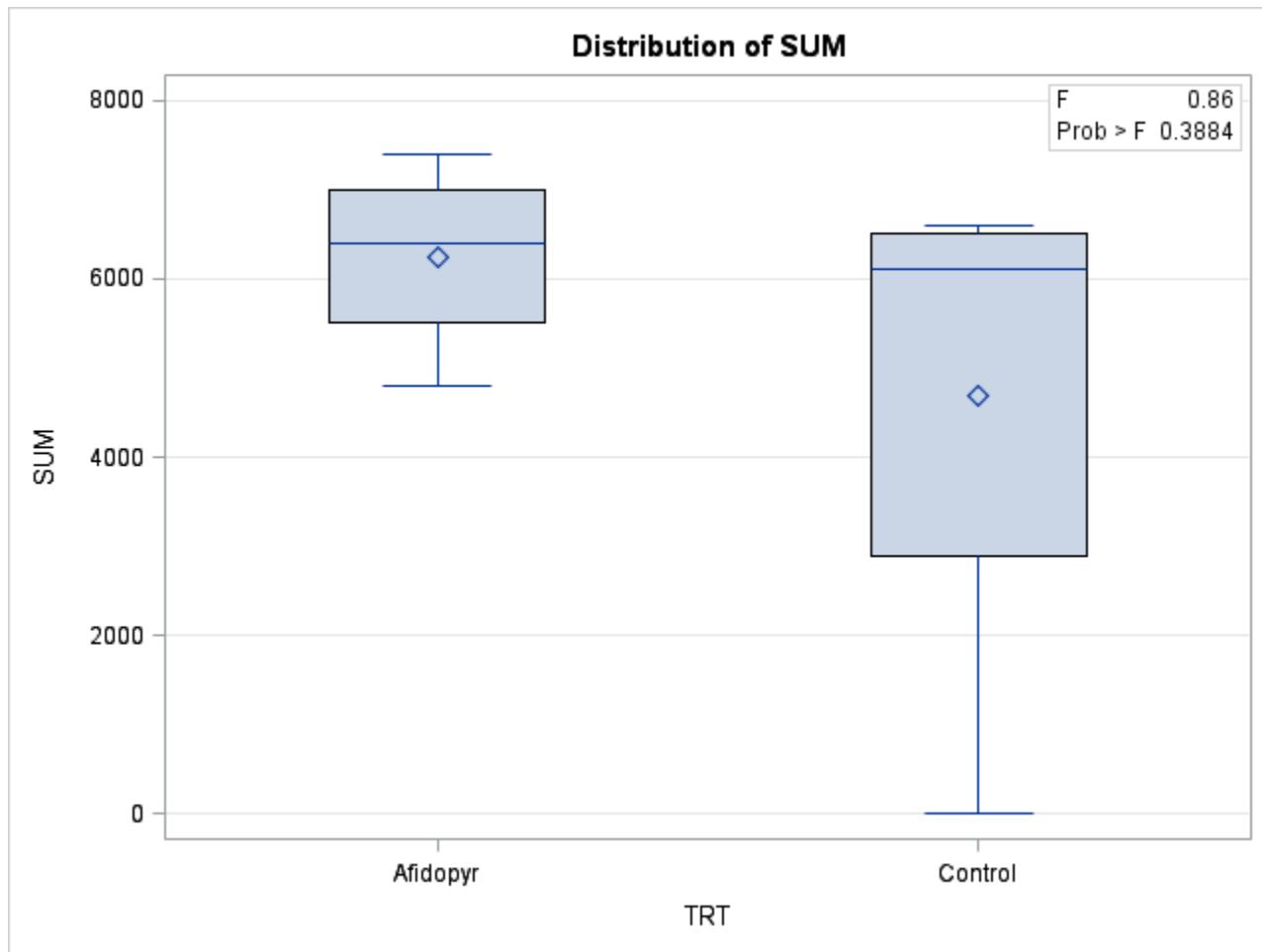
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Eggs DAT=18**

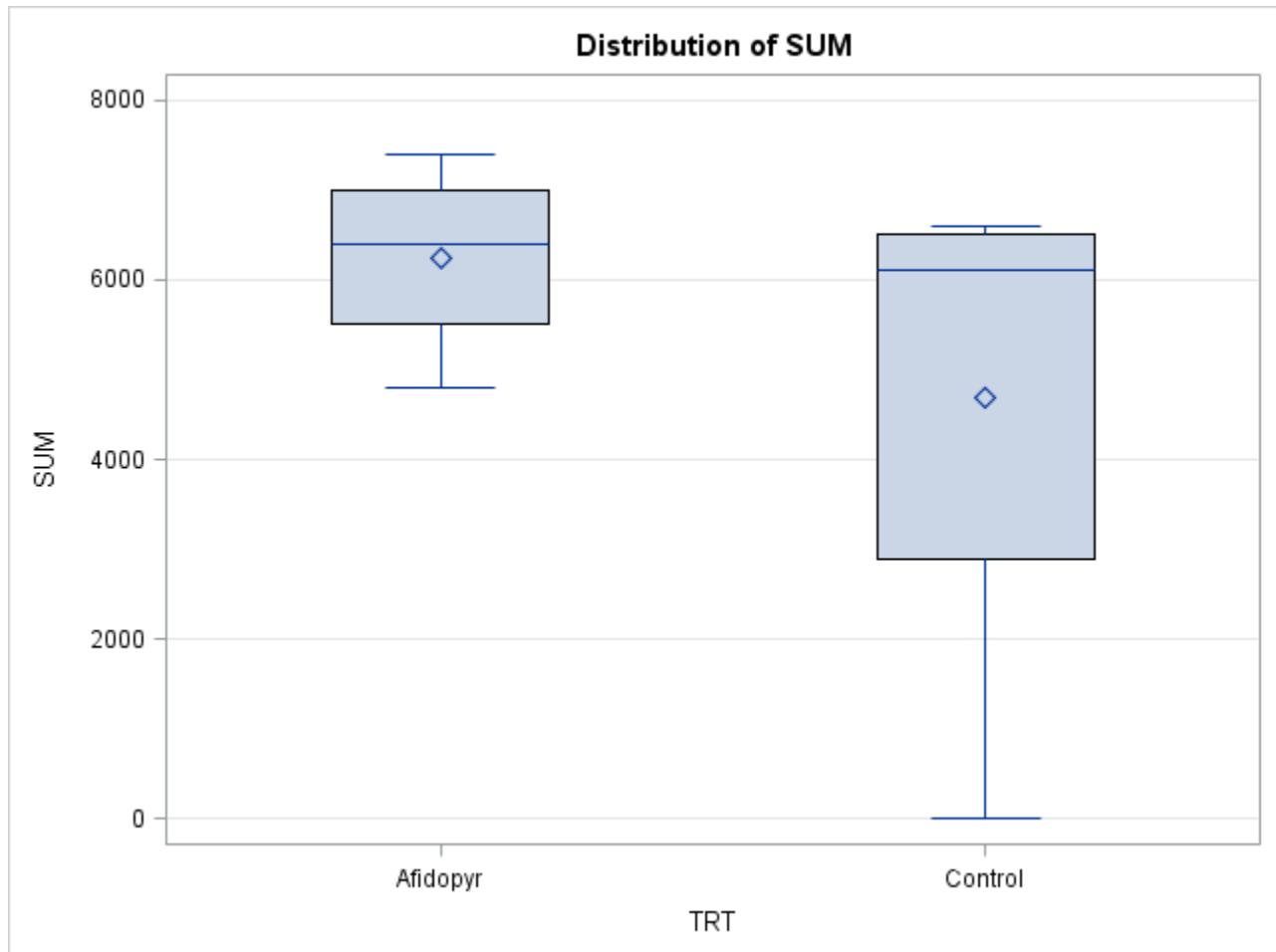
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	4805000.00	4805000.00	0.86	0.3884
<b>Error</b>	6	33350000.00	5558333.33		
<b>Corrected Total</b>	7	38155000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.125934	43.06140	2357.612	5475.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	4805000.000	4805000.000	0.86	0.3884





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Eggs DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Eggs DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	5558333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	4079.2

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	6250	4	Afidopyr
A			
A	4700	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Eggs DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

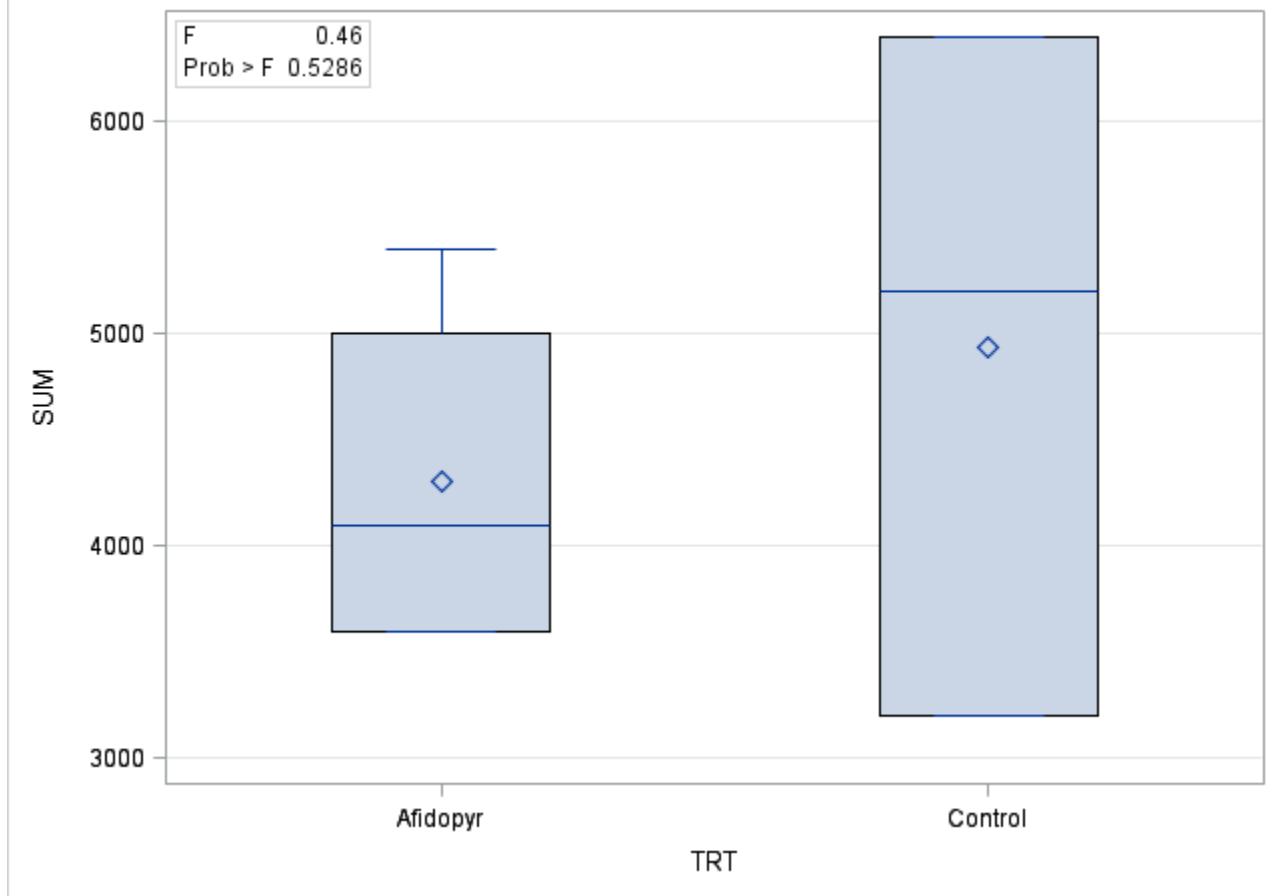
Number of Observations Read	7
Number of Observations Used	7

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Eggs DAT=25**

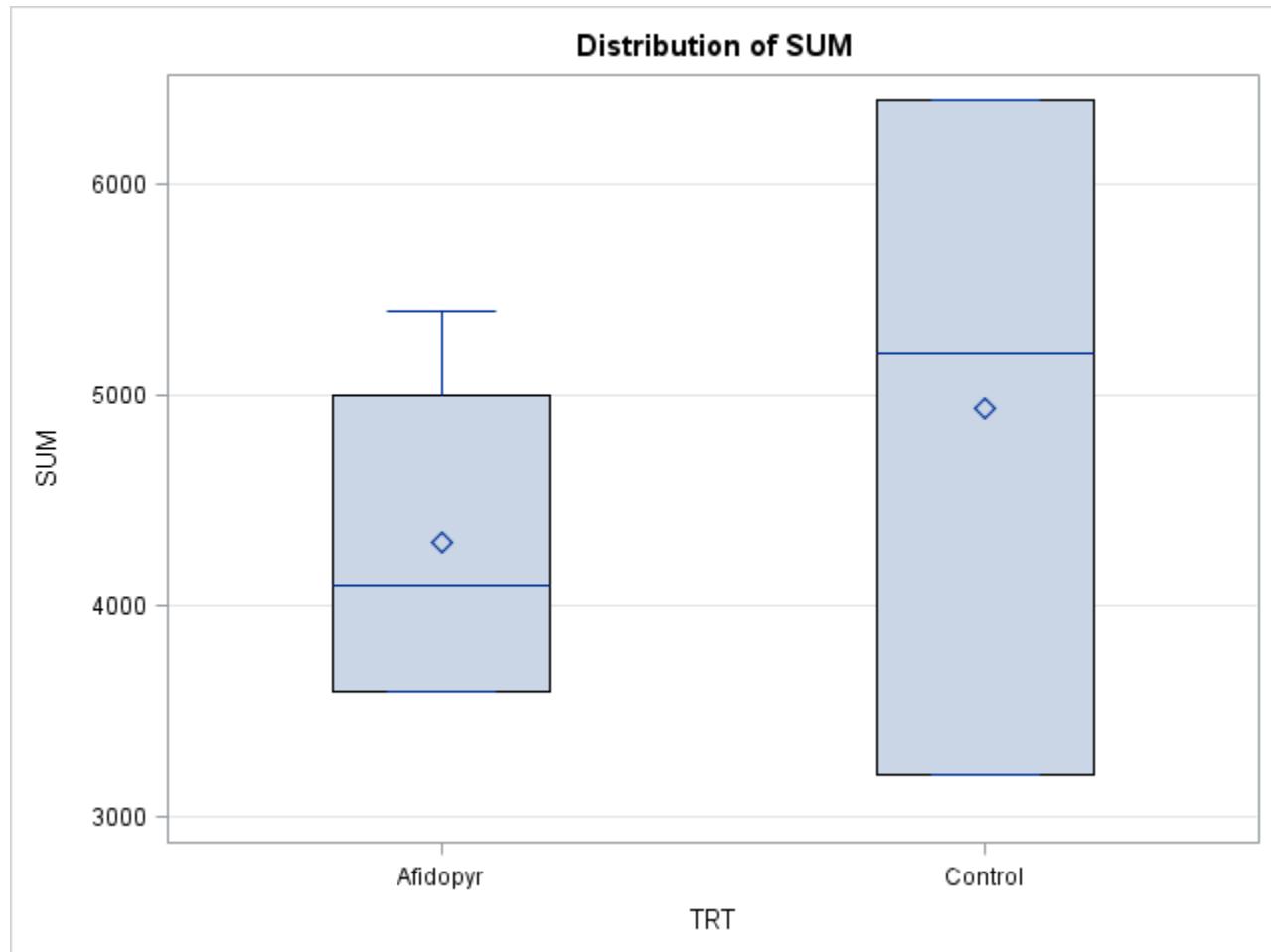
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	687619.048	687619.048	0.46	0.5286
<b>Error</b>	5	7506666.667	1501333.333		
<b>Corrected Total</b>	6	8194285.714			

R-Square	Coeff Var	Root MSE	SUM Mean
0.083914	26.80320	1225.289	4571.429

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	687619.0476	687619.0476	0.46	0.5286

**Distribution of SUM**



**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Eggs DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Eggs DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	1501333
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	2405.6
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	4933.3	3	Control
A			
A	4300.0	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Eggs DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

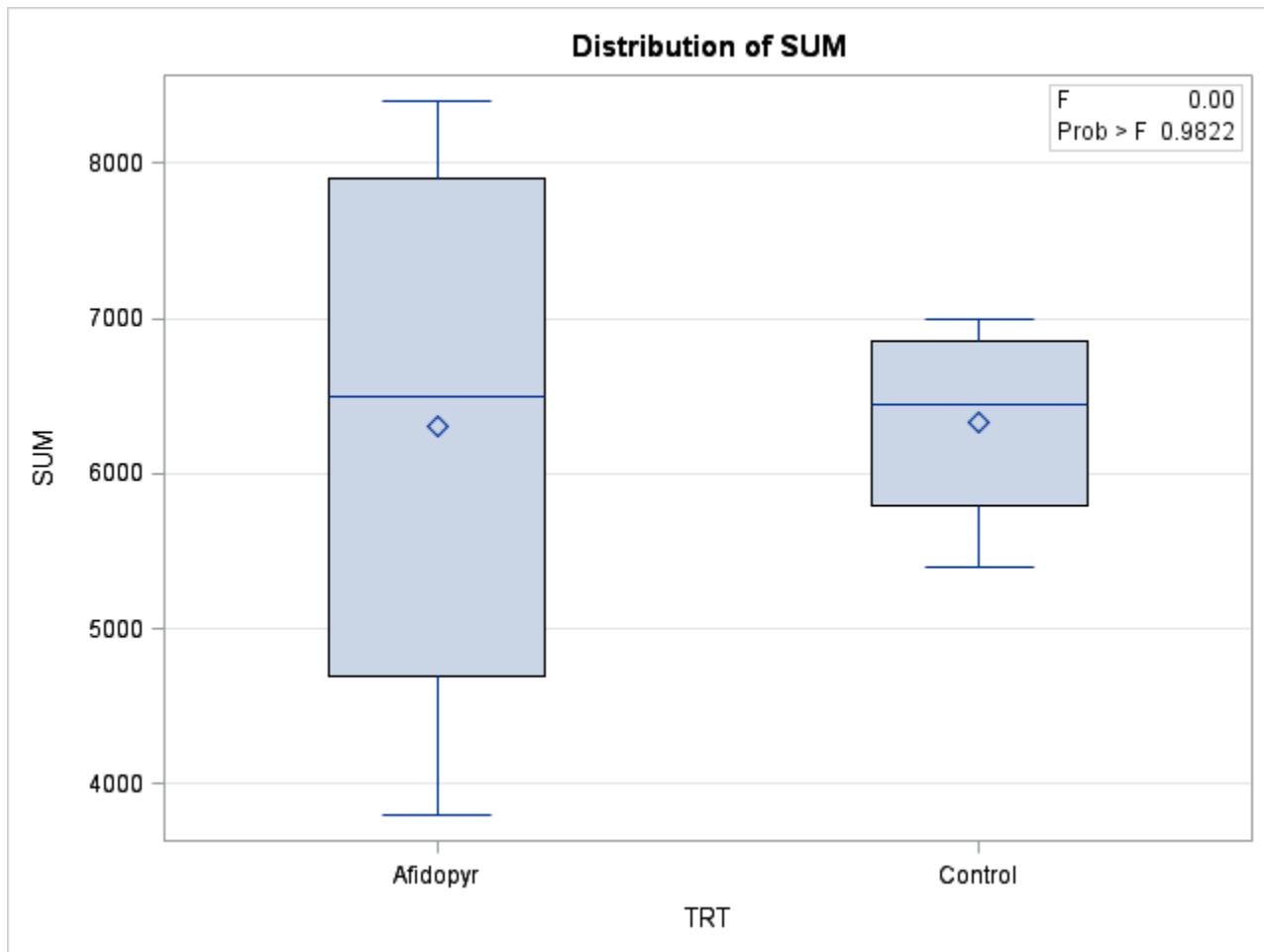
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Eggs DAT=4**

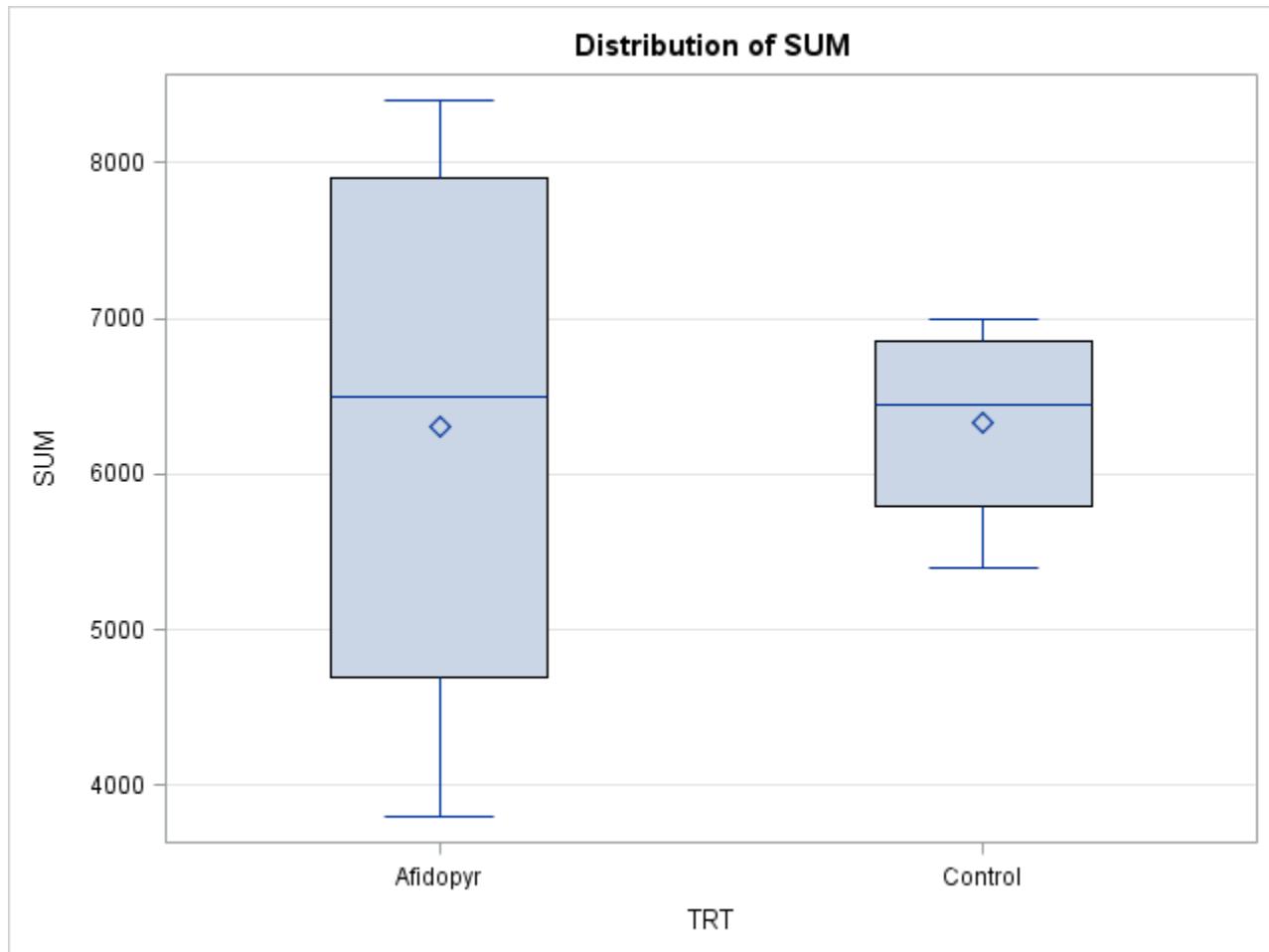
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1250.00	1250.00	0.00	0.9822
<b>Error</b>	6	13827500.00	2304583.33		
<b>Corrected Total</b>	7	13828750.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.000090	24.04888	1518.085	6312.500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1250.000000	1250.000000	0.00	0.9822





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Eggs DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Eggs DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	2304583
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	2626.6

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	6325	4	Control
A			
A	6300	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Honey DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

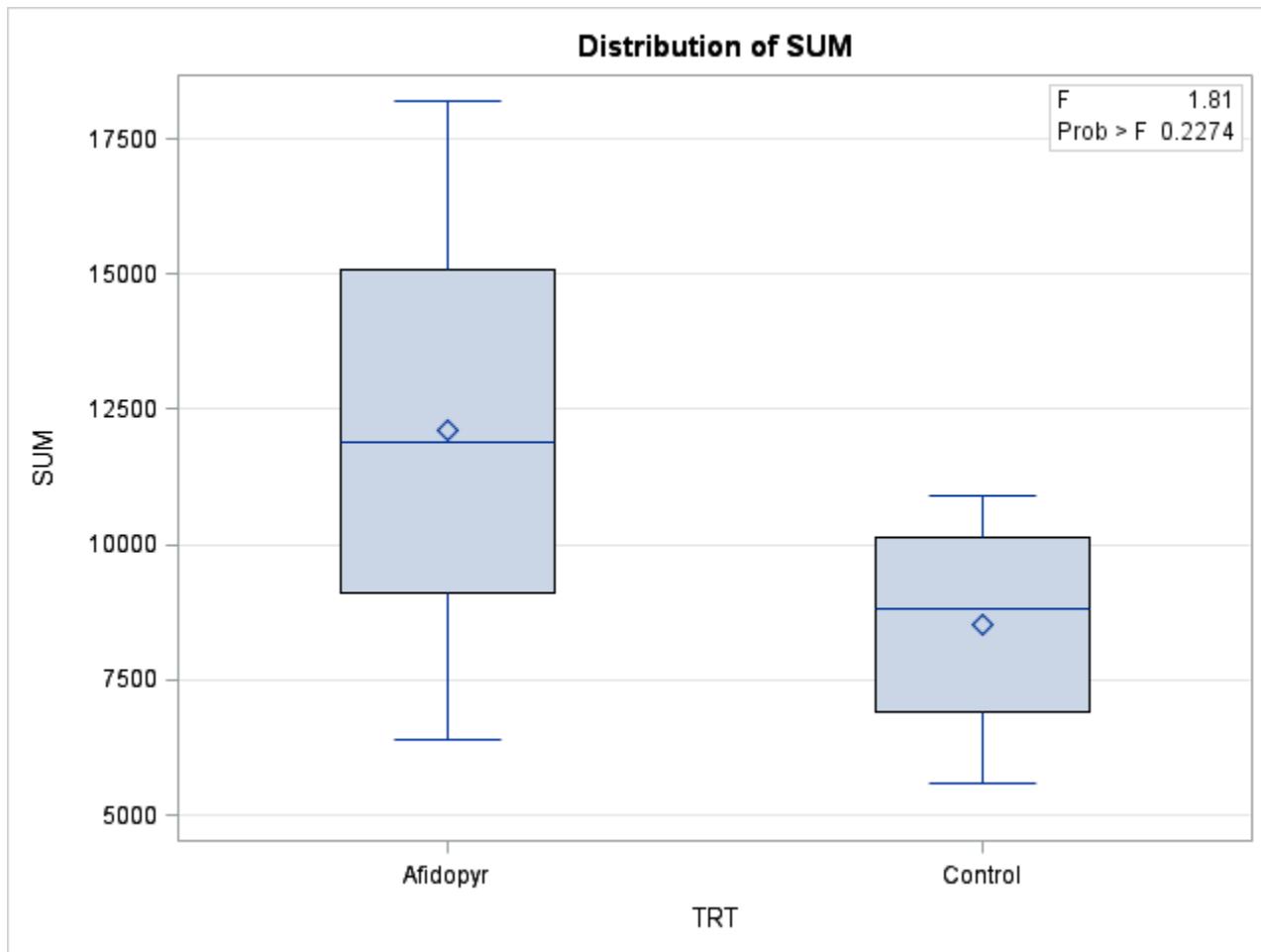
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Honey DAT=-3**

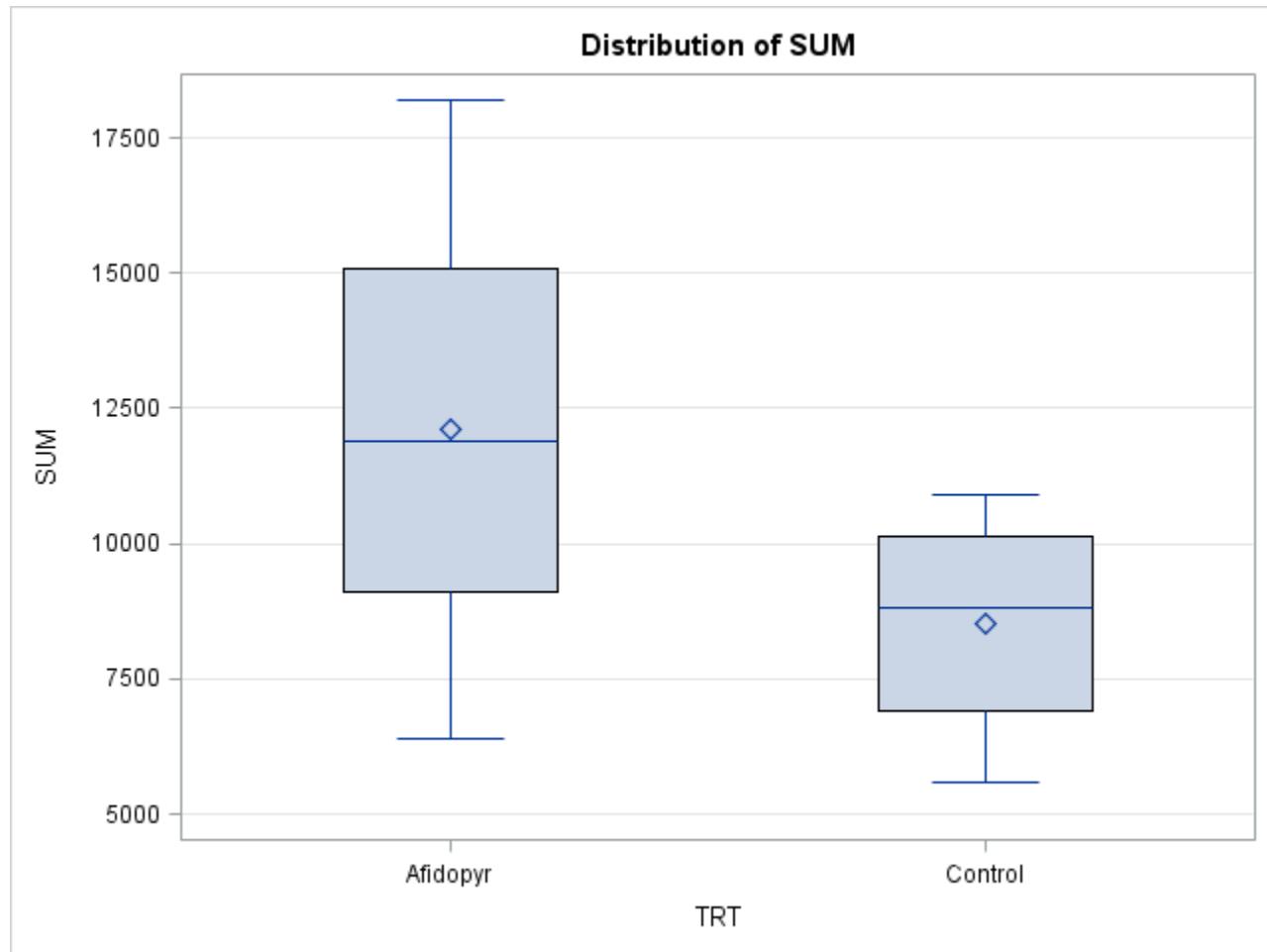
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	25561250.0	25561250.0	1.81	0.2274
<b>Error</b>	6	84867500.0	14144583.3		
<b>Corrected Total</b>	7	110428750.0			

R-Square	Coeff Var	Root MSE	SUM Mean
0.231473	36.46961	3760.929	10312.50

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	25561250.00	25561250.00	1.81	0.2274





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Honey DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Honey DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	14144583
Critical Value of t	2.44691
Minimum Significant Difference	6507.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	12100	4	Afidopyr
A			
A	8525	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Honey DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

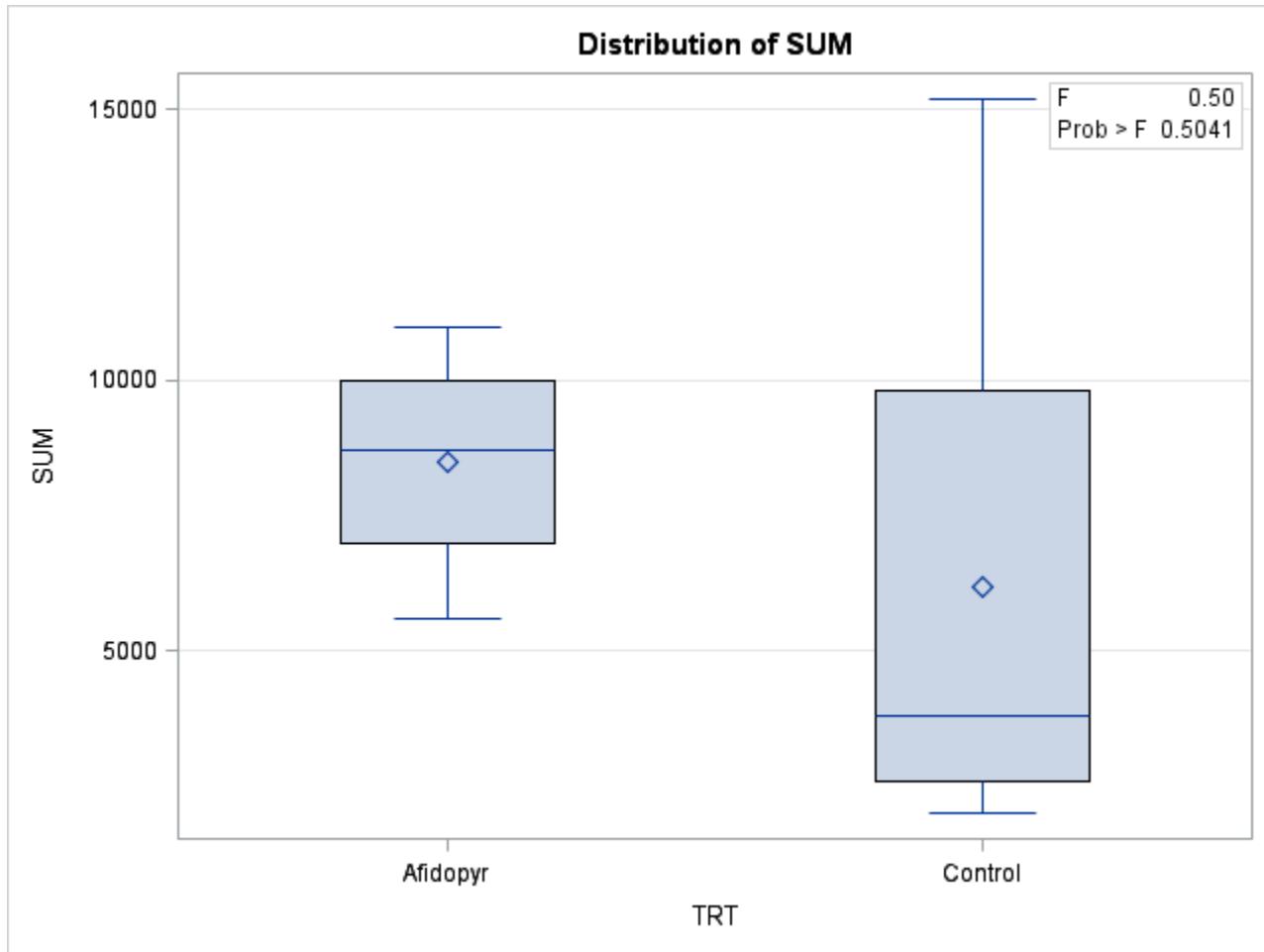
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Honey DAT=11**

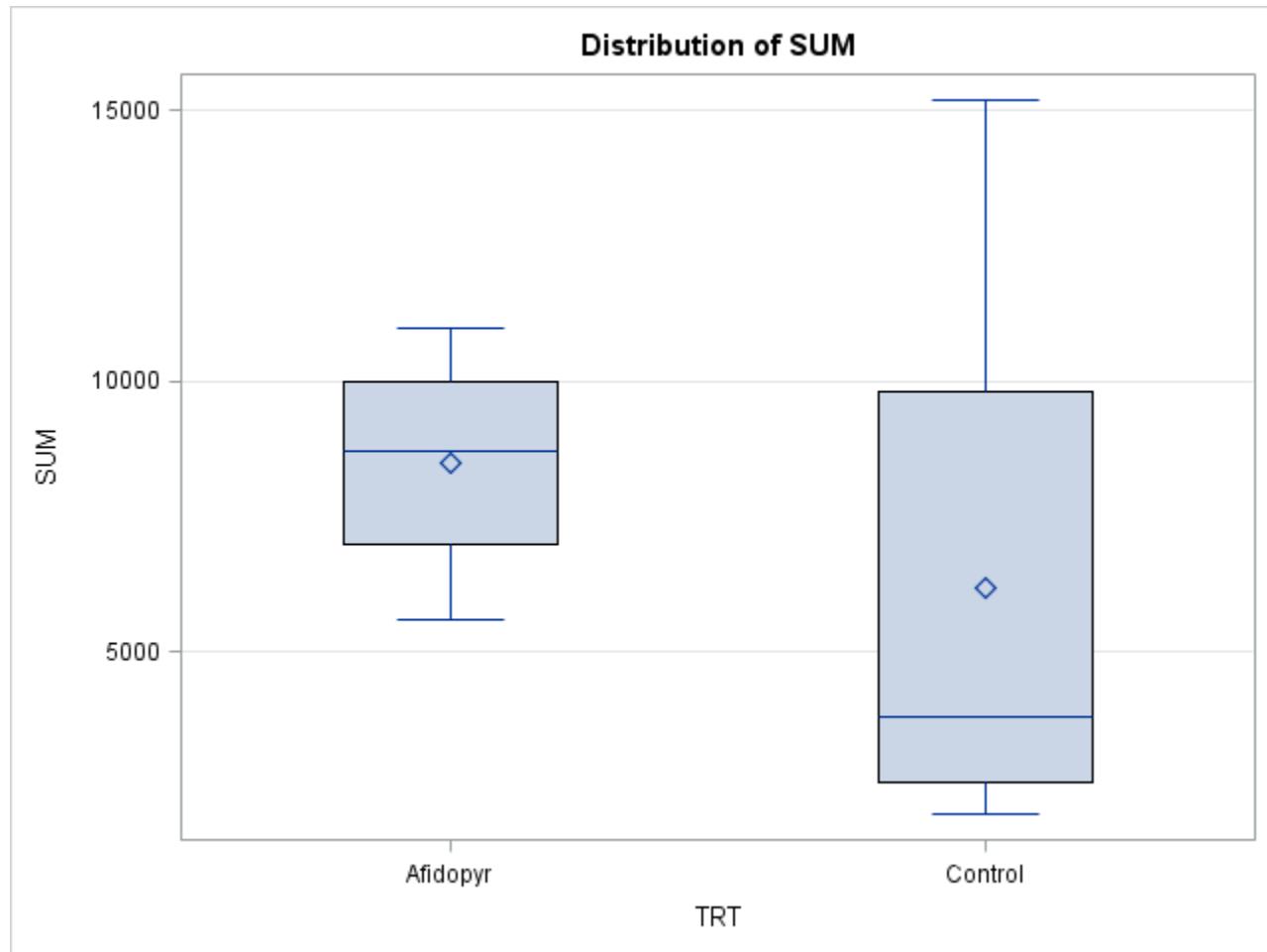
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	10580000.0	10580000.0	0.50	0.5041
<b>Error</b>	6	125800000.0	20966666.7		
<b>Corrected Total</b>	7	136380000.0			

R-Square	Coeff Var	Root MSE	SUM Mean
0.077577	62.29847	4578.937	7350.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	10580000.00	10580000.00	0.50	0.5041





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Honey DAT=11**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Honey DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	20966667
Critical Value of t	2.44691
Minimum Significant Difference	7922.6

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	8500	4	Afidopyr
A			
A	6200	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Honey DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

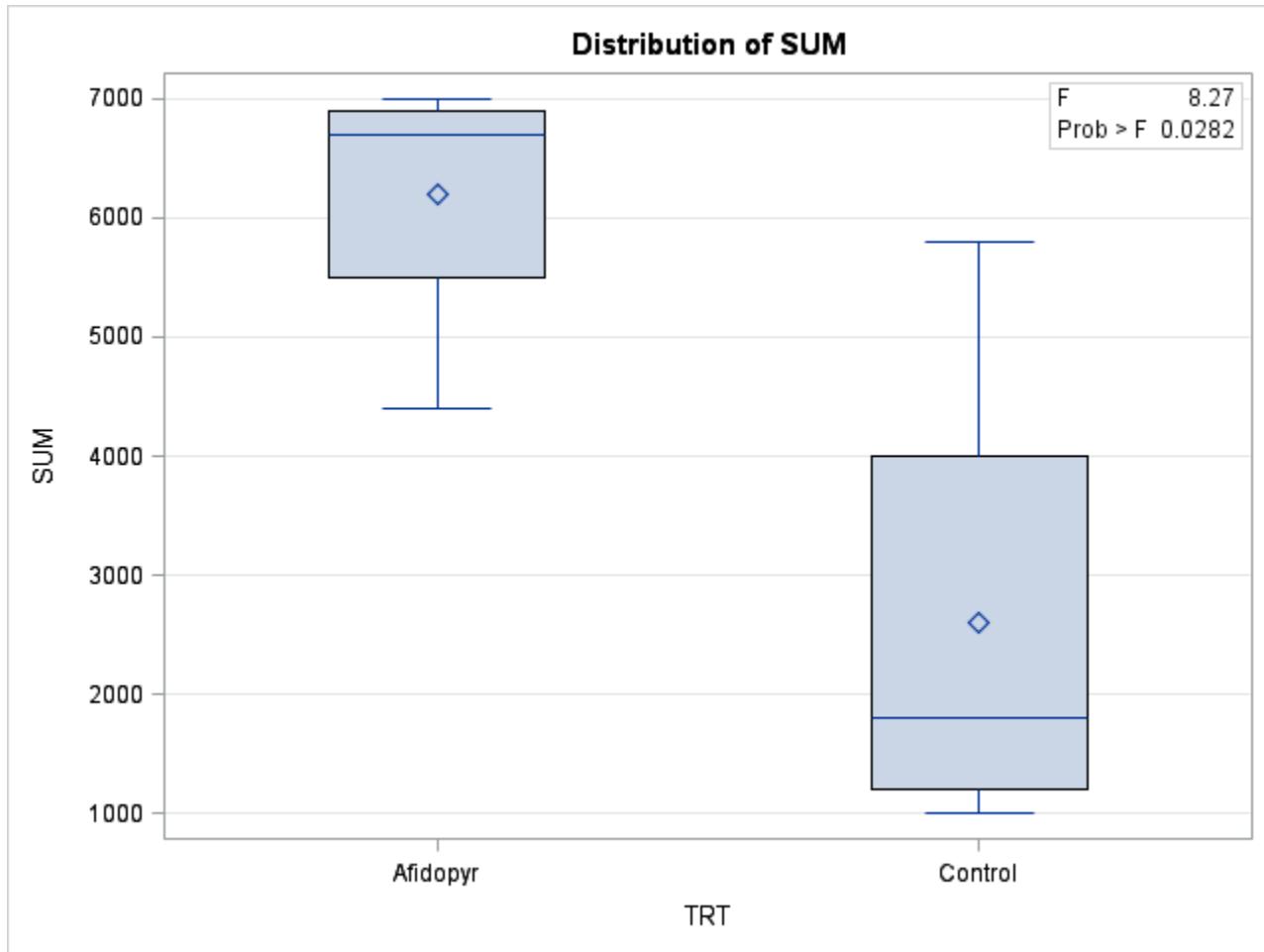
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Honey DAT=18**

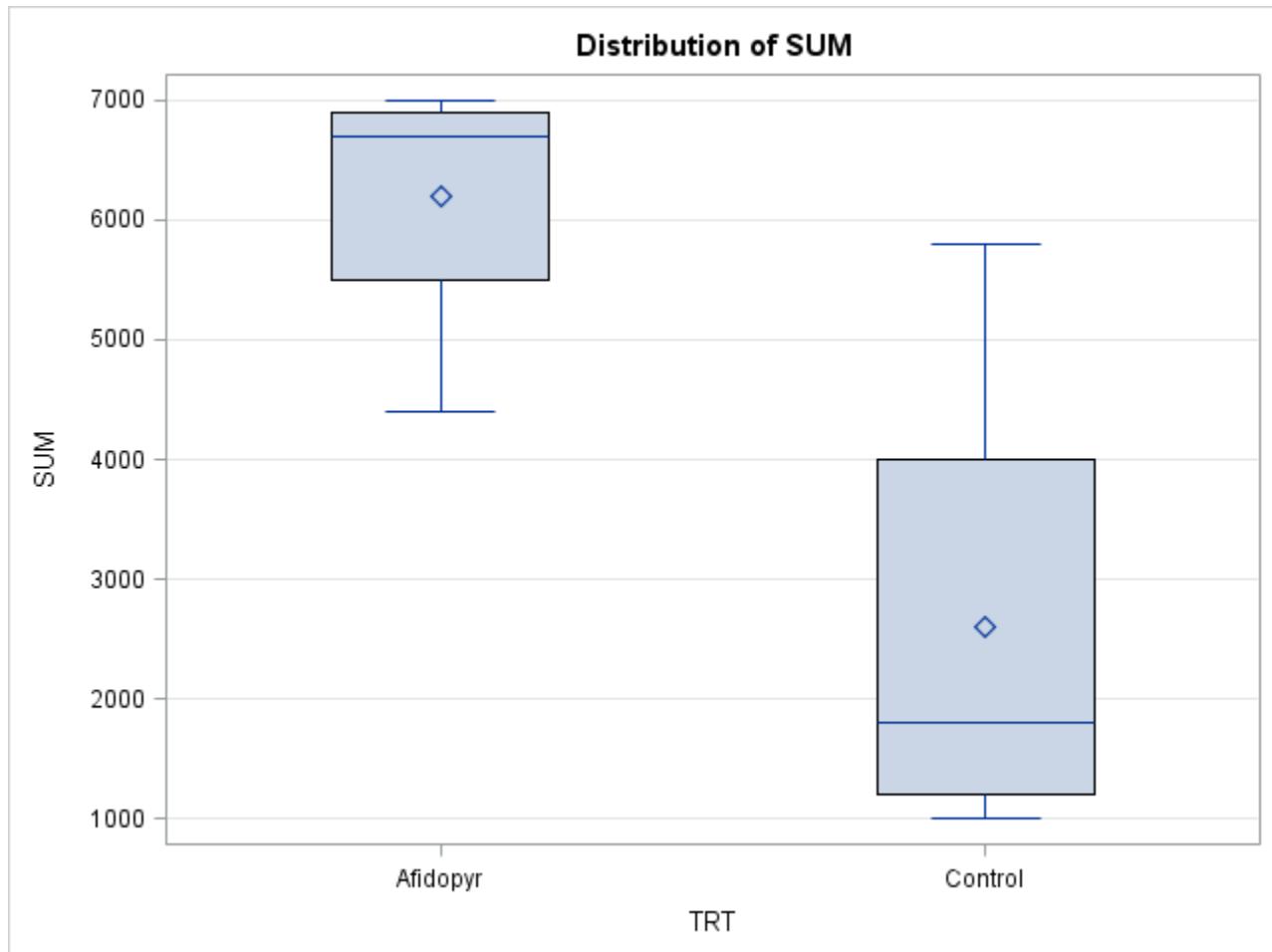
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	25912800.50	25912800.50	8.27	0.0282
<b>Error</b>	6	18793603.00	3132267.17		
<b>Corrected Total</b>	7	44706403.50			

R-Square	Coeff Var	Root MSE	SUM Mean
0.579622	40.22092	1769.821	4400.250

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	25912800.50	25912800.50	8.27	0.0282





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Honey DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Honey DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	3132267
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	3062.2

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	6200	4	Afidopyr
B	2601	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Honey DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

Number of Observations Read	7
Number of Observations Used	7

## ANOVA FOR MATRIX BY DAT

## The ANOVA Procedure

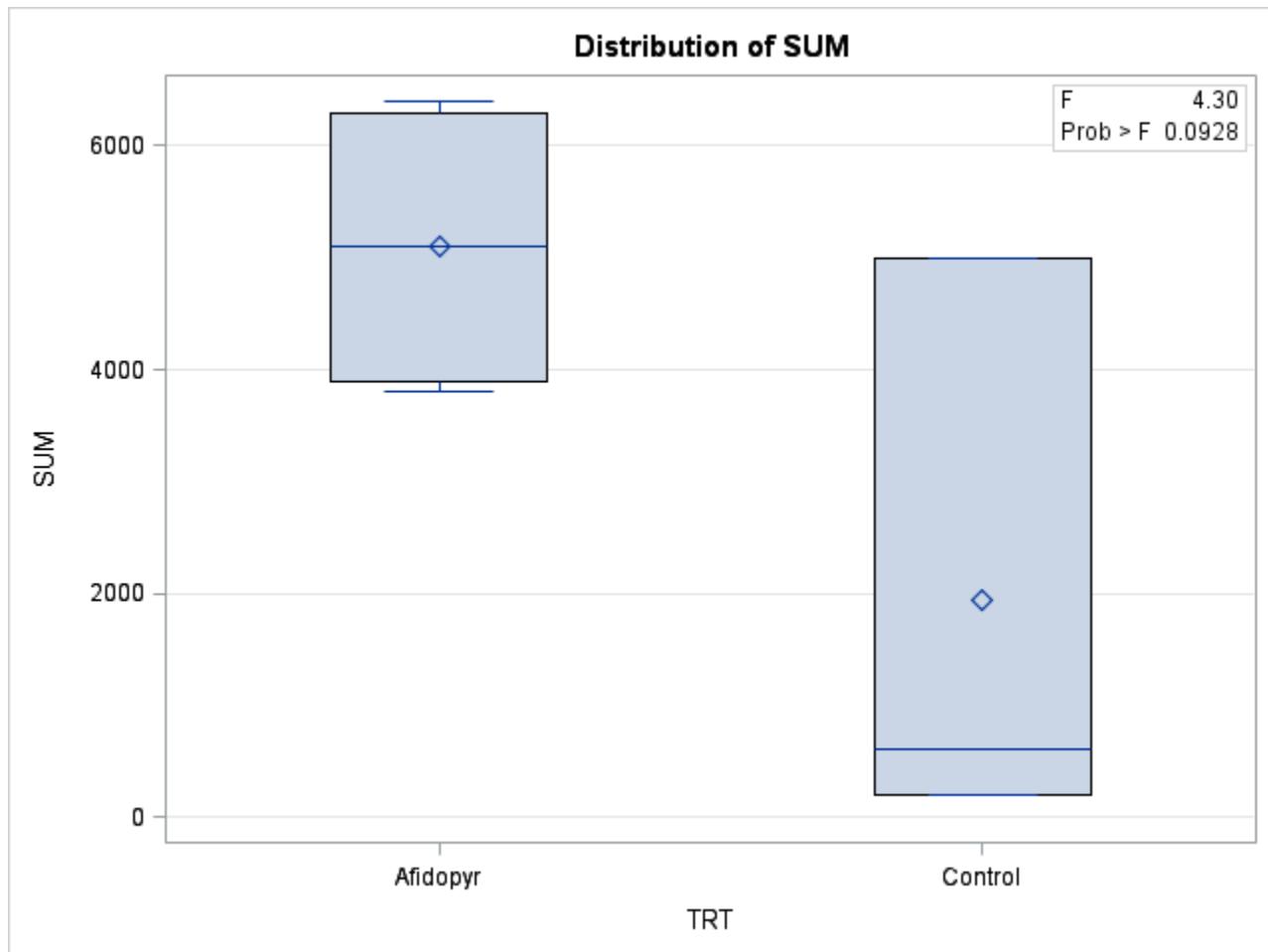
## Dependent Variable: SUM

MATRIX=Honey DAT=25

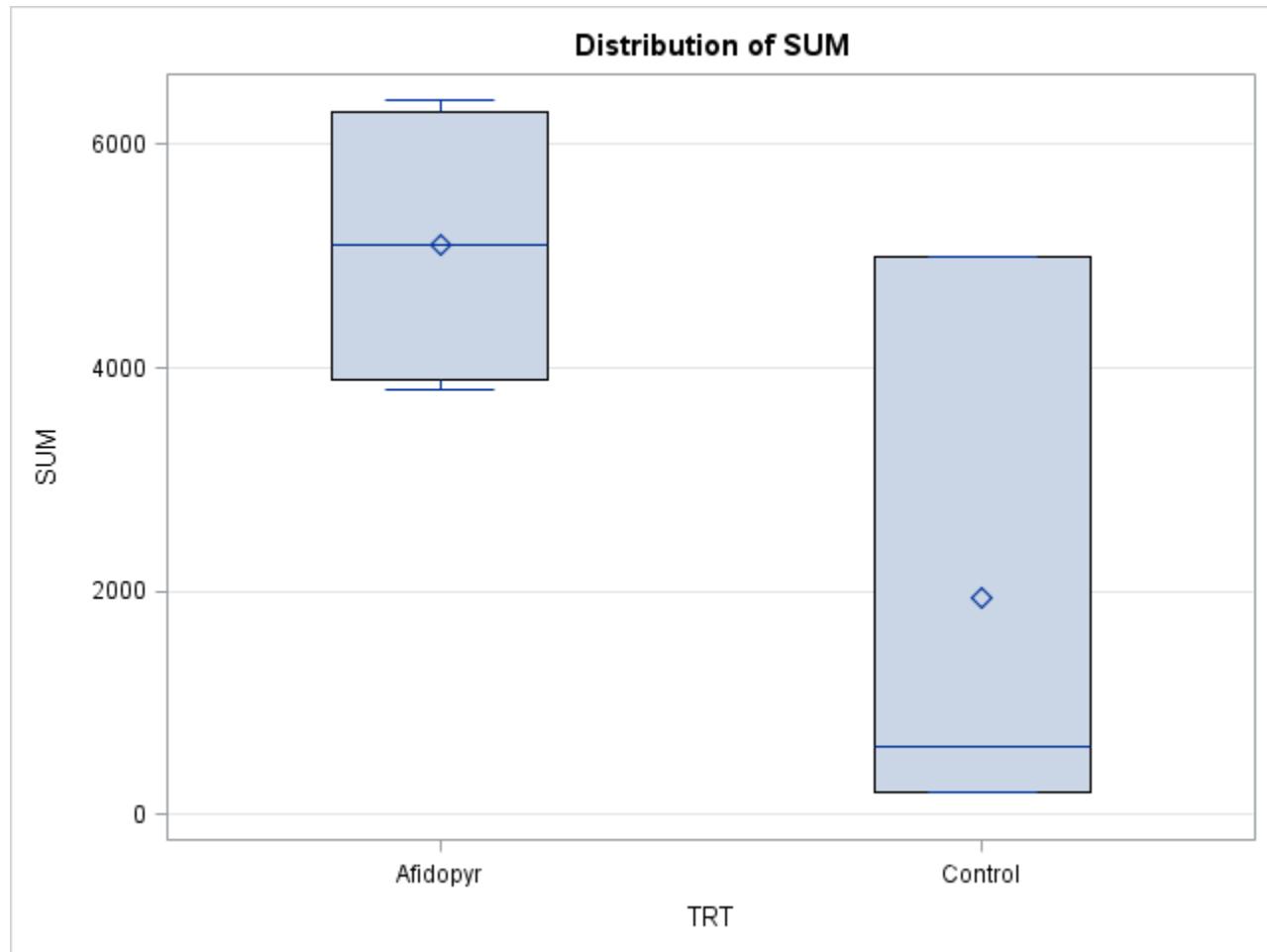
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	17190476.19	17190476.19	4.30	0.0928
<b>Error</b>	5	19986666.67	3997333.33		
<b>Corrected Total</b>	6	37177142.86			

R-Square	Coeff Var	Root MSE	SUM Mean
0.462394	53.41730	1999.333	3742.857

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRT	1	17190476.19	17190476.19	4.30	0.0928





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Honey DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Honey DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	3997333
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	3925.3
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	5100	4	Afidopyr
A			
A	1933	3	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

**MATRIX=Honey DAT=4**

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

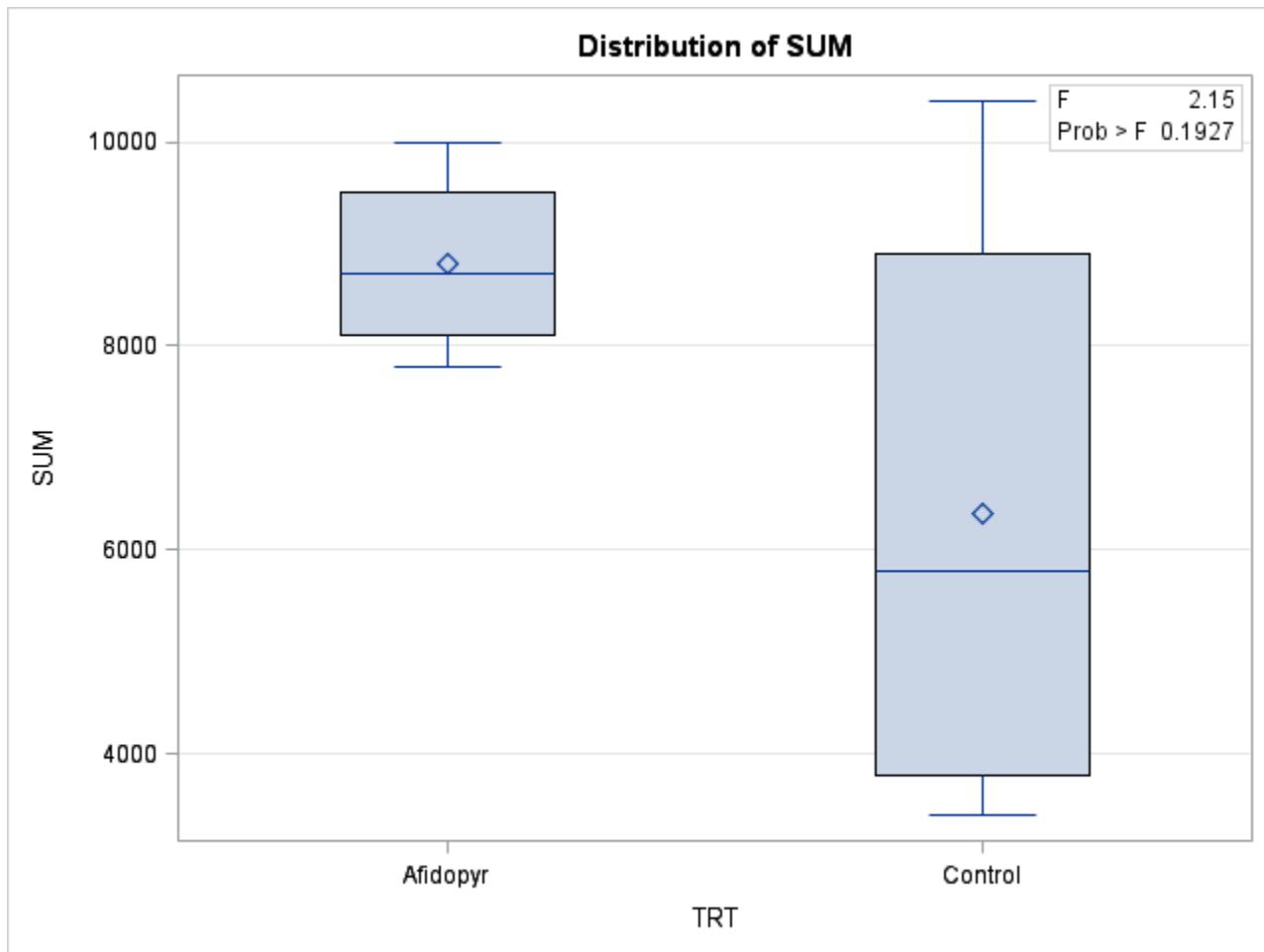
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Honey DAT=4**

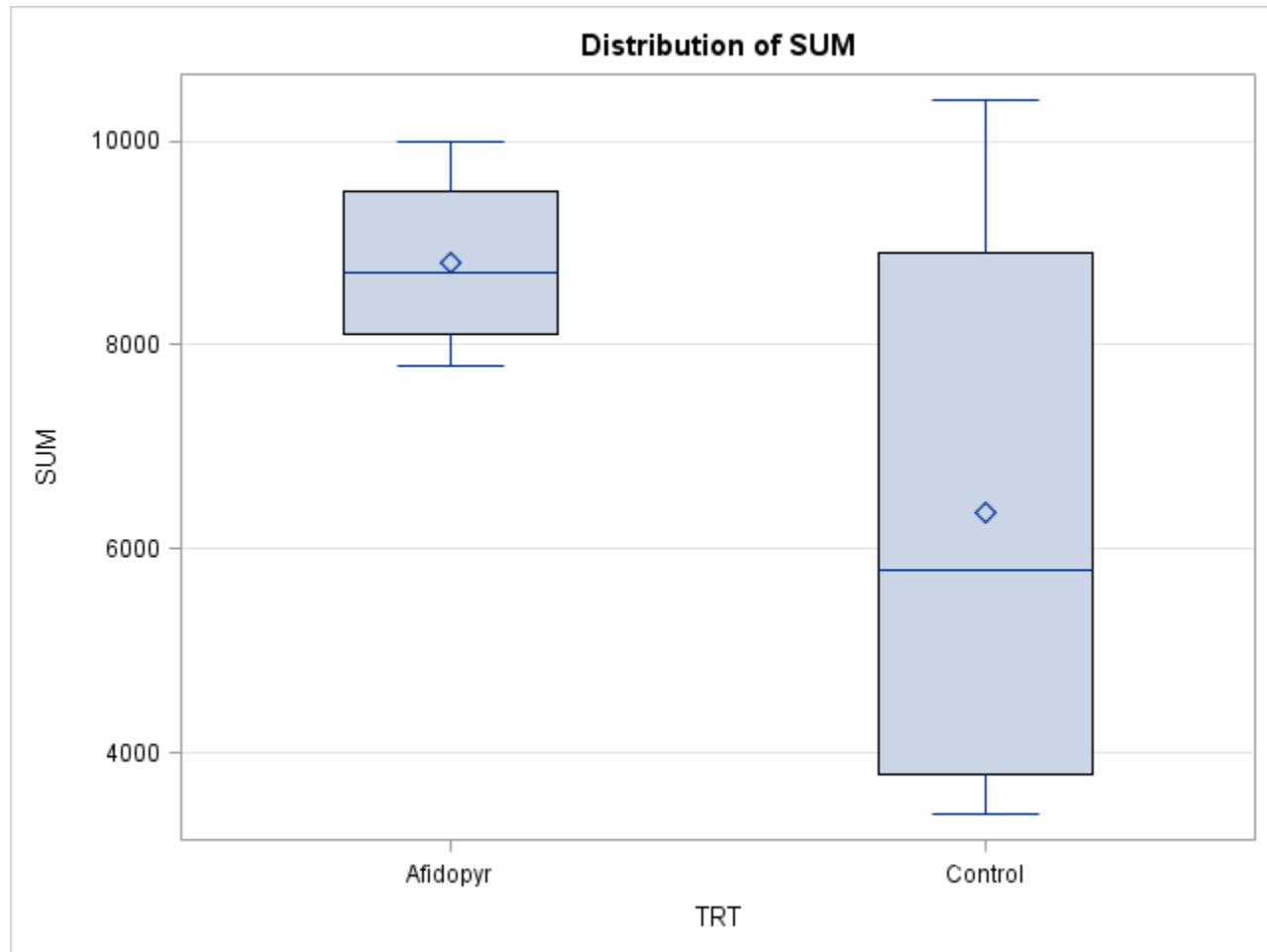
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	12005000.00	12005000.00	2.15	0.1927
<b>Error</b>	6	33470000.00	5578333.33		
<b>Corrected Total</b>	7	45475000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.263991	31.17953	2361.850	7575.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	12005000.00	12005000.00	2.15	0.1927





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Honey DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Honey DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	5578333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	4086.5

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	8800	4	Afidopyr
A			
A	6350	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Larvae DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

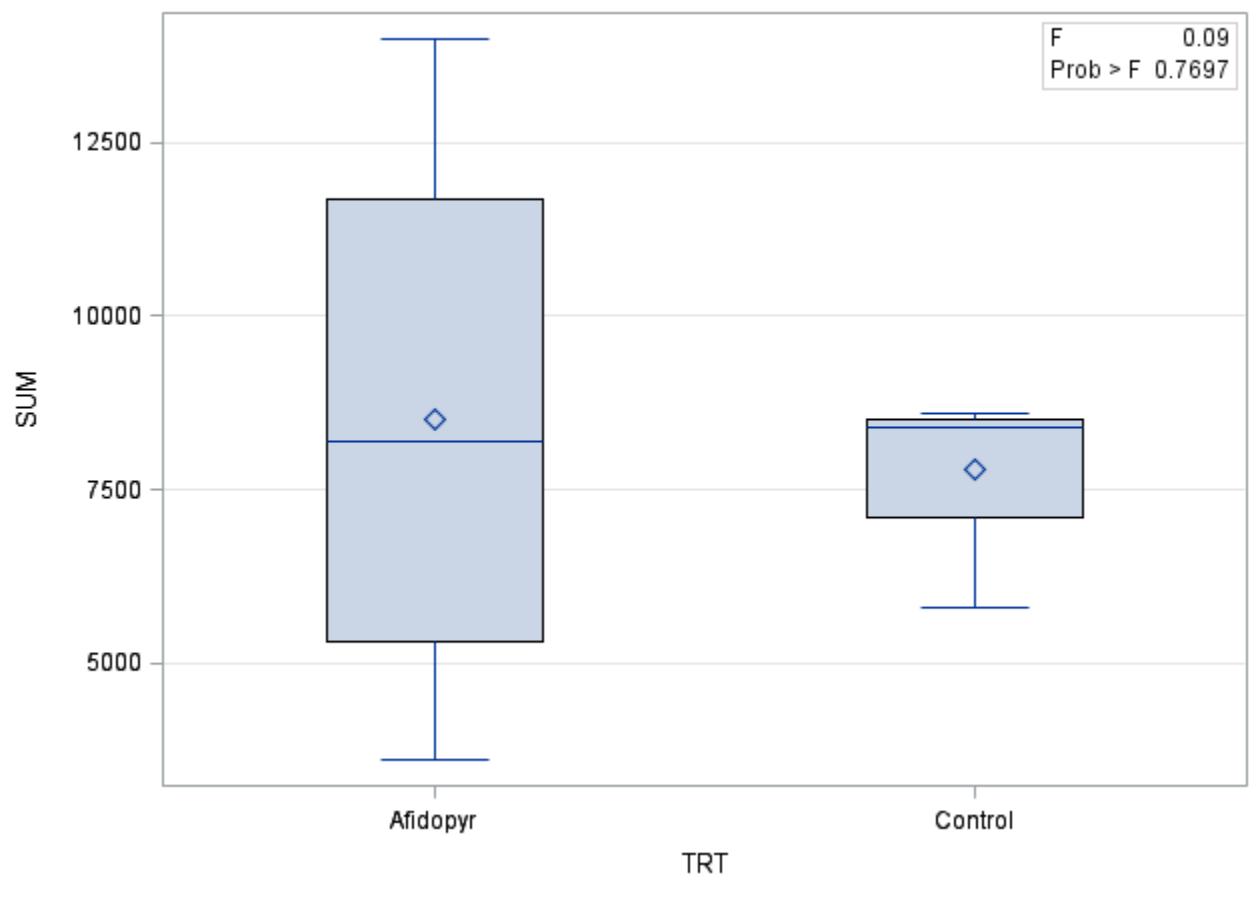
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Larvae DAT=-3**

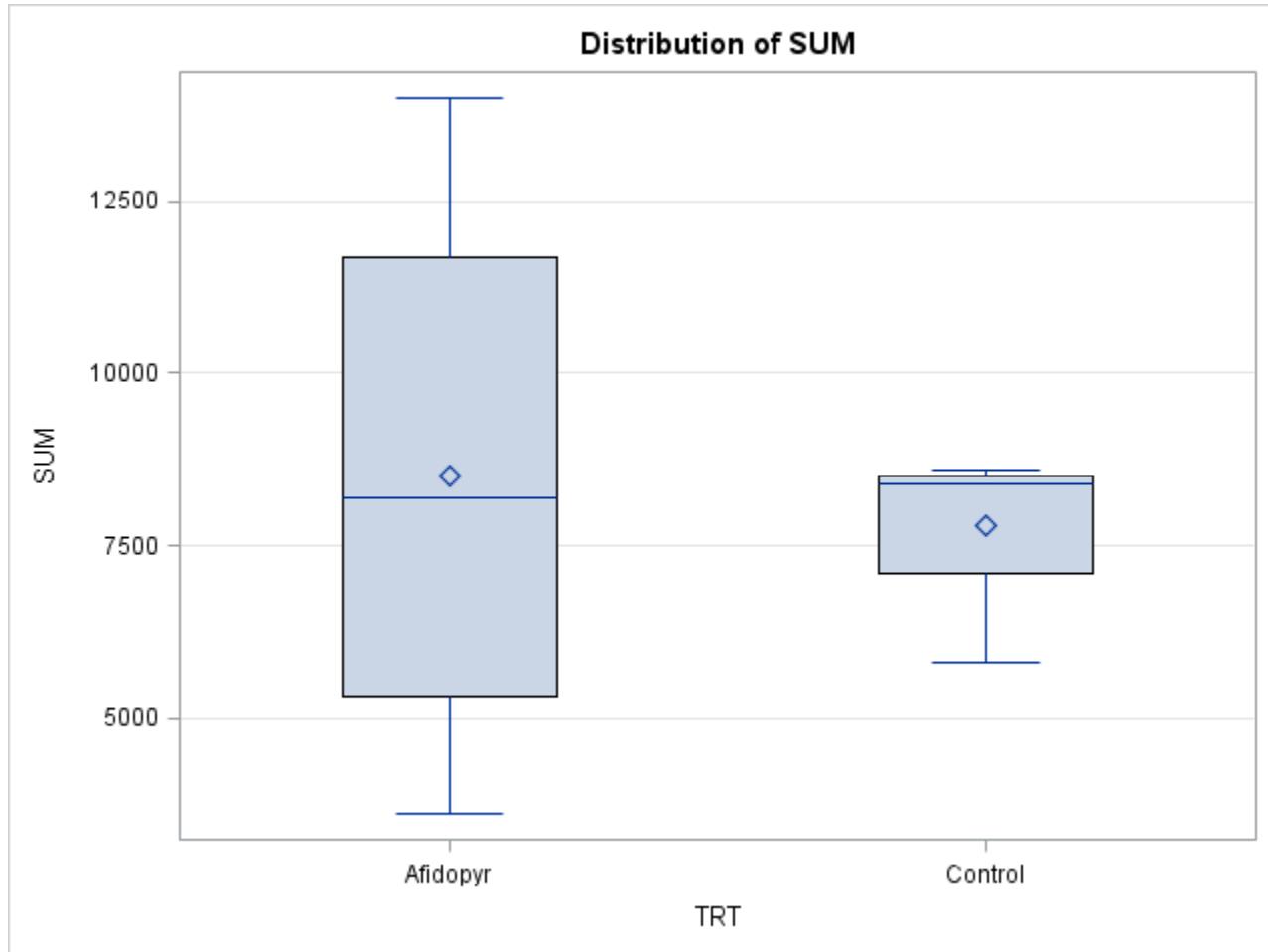
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	980000.00	980000.00	0.09	0.7697
<b>Error</b>	6	62680000.00	10446666.67		
<b>Corrected Total</b>	7	63660000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.015394	39.65804	3232.130	8150.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	980000.0000	980000.0000	0.09	0.7697

**Distribution of SUM**



**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Larvae DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Larvae DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	10446667
Critical Value of t	2.44691
Minimum Significant Difference	5592.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	8500	4	Afidopyr
A			
A	7800	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Larvae DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

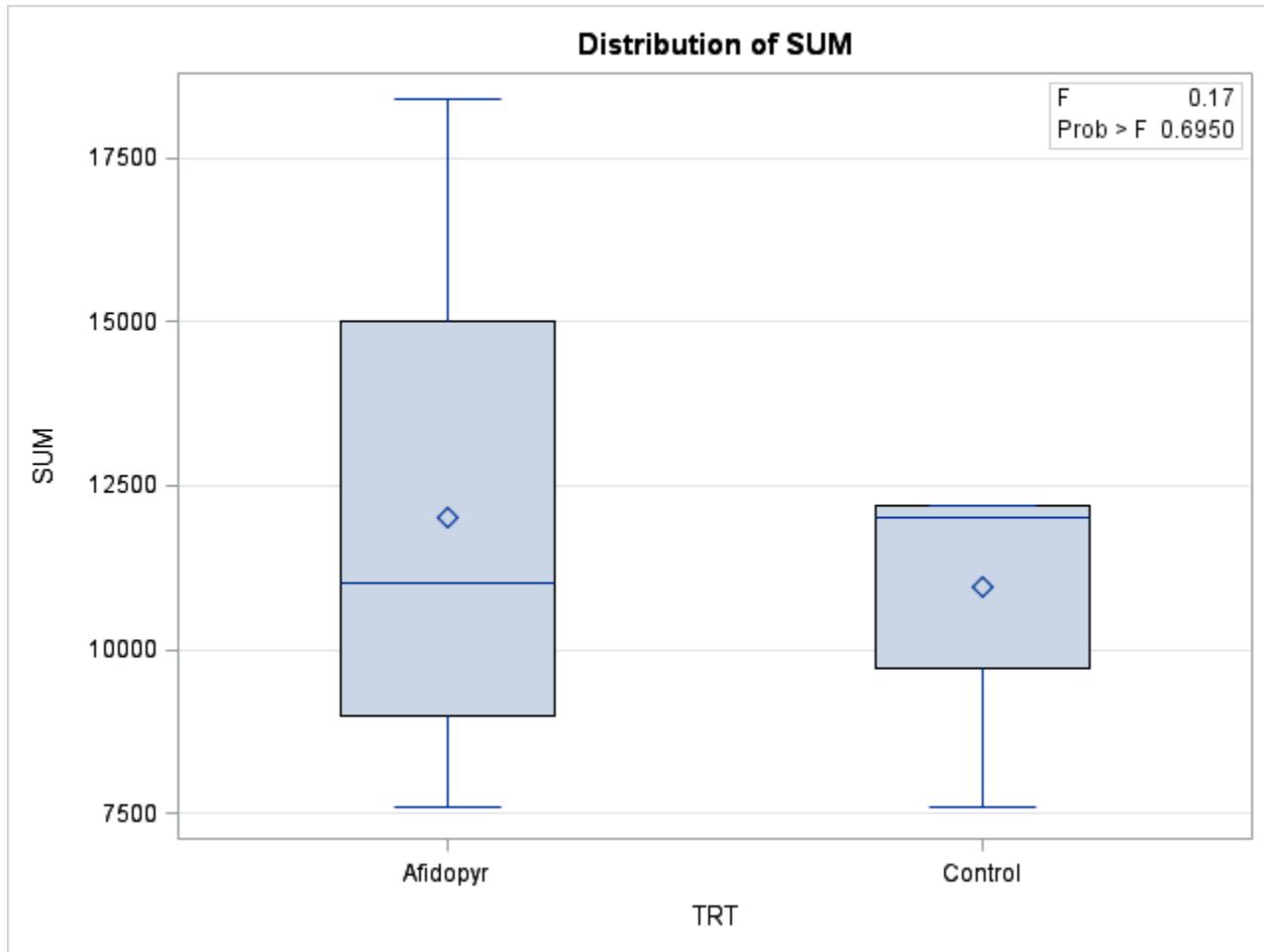
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Larvae DAT=11**

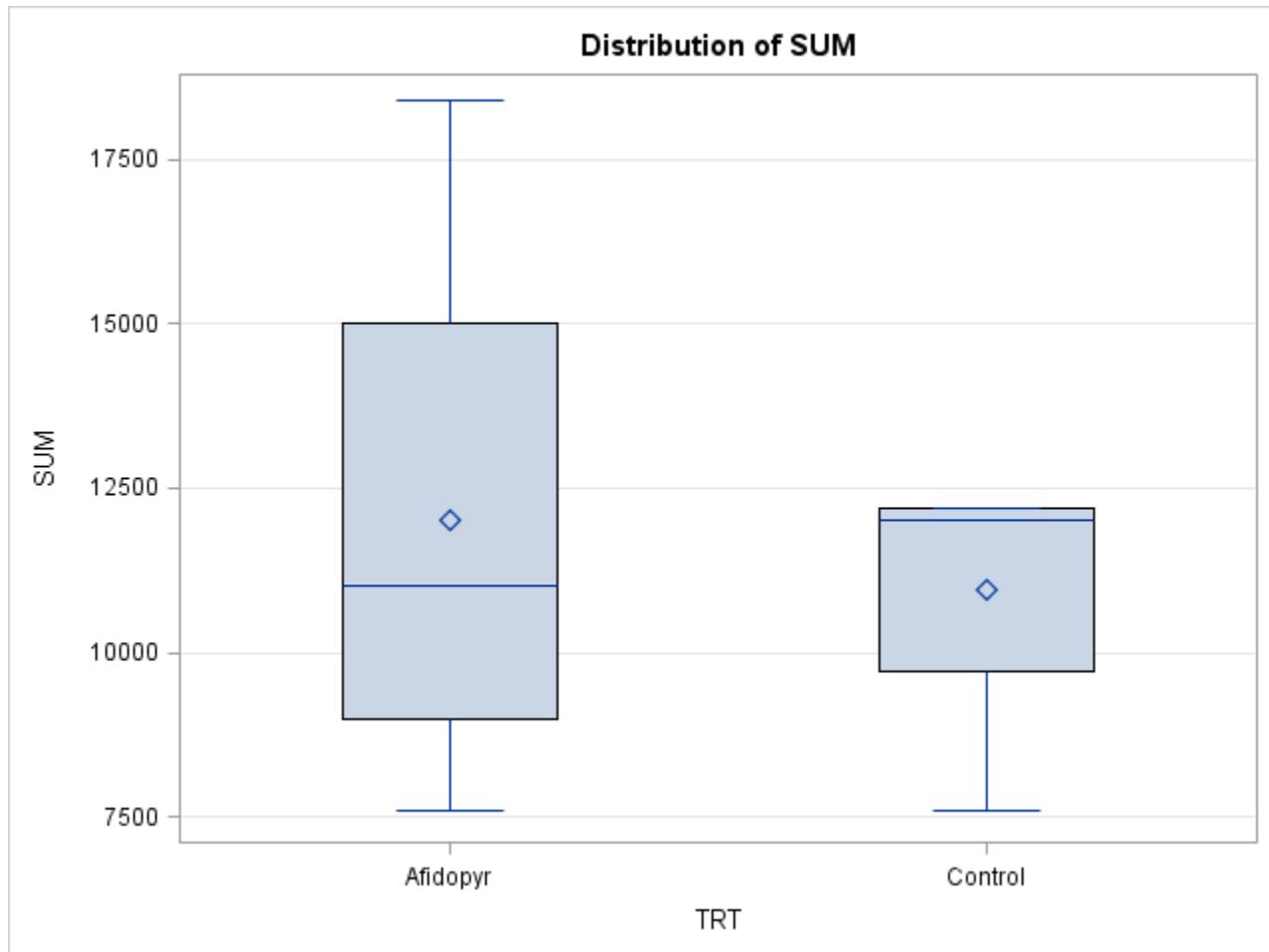
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	2205000.00	2205000.00	0.17	0.6950
<b>Error</b>	6	78110000.00	13018333.33		
<b>Corrected Total</b>	7	80315000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.027454	31.44307	3608.093	11475.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	2205000.000	2205000.000	0.17	0.6950





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Larvae DAT=11**

---

## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Larvae DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	13018333
Critical Value of t	2.44691
Minimum Significant Difference	6242.8

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	12000	4	Afidopyr
A			
A	10950	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Larvae DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

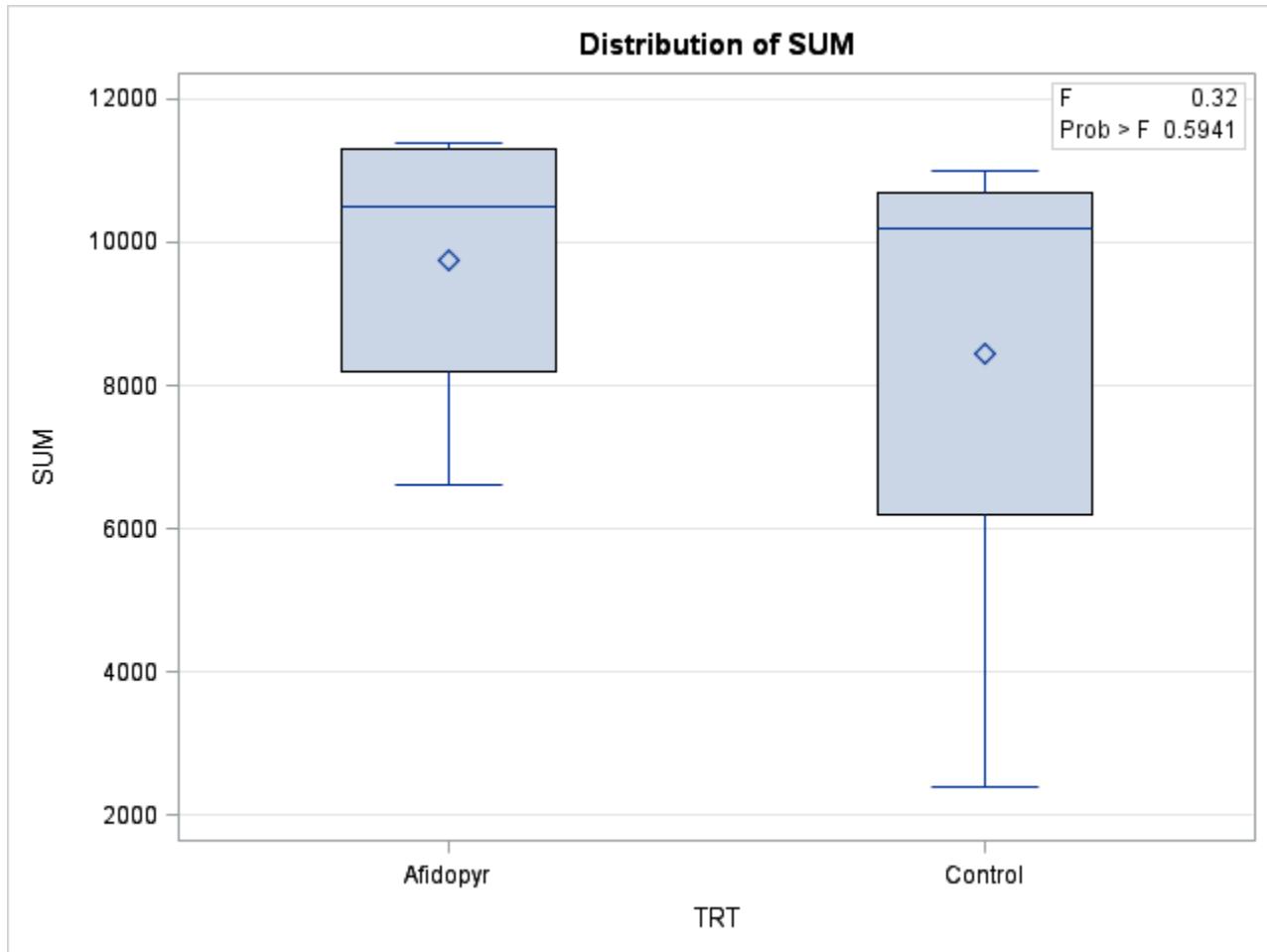
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Larvae DAT=18**

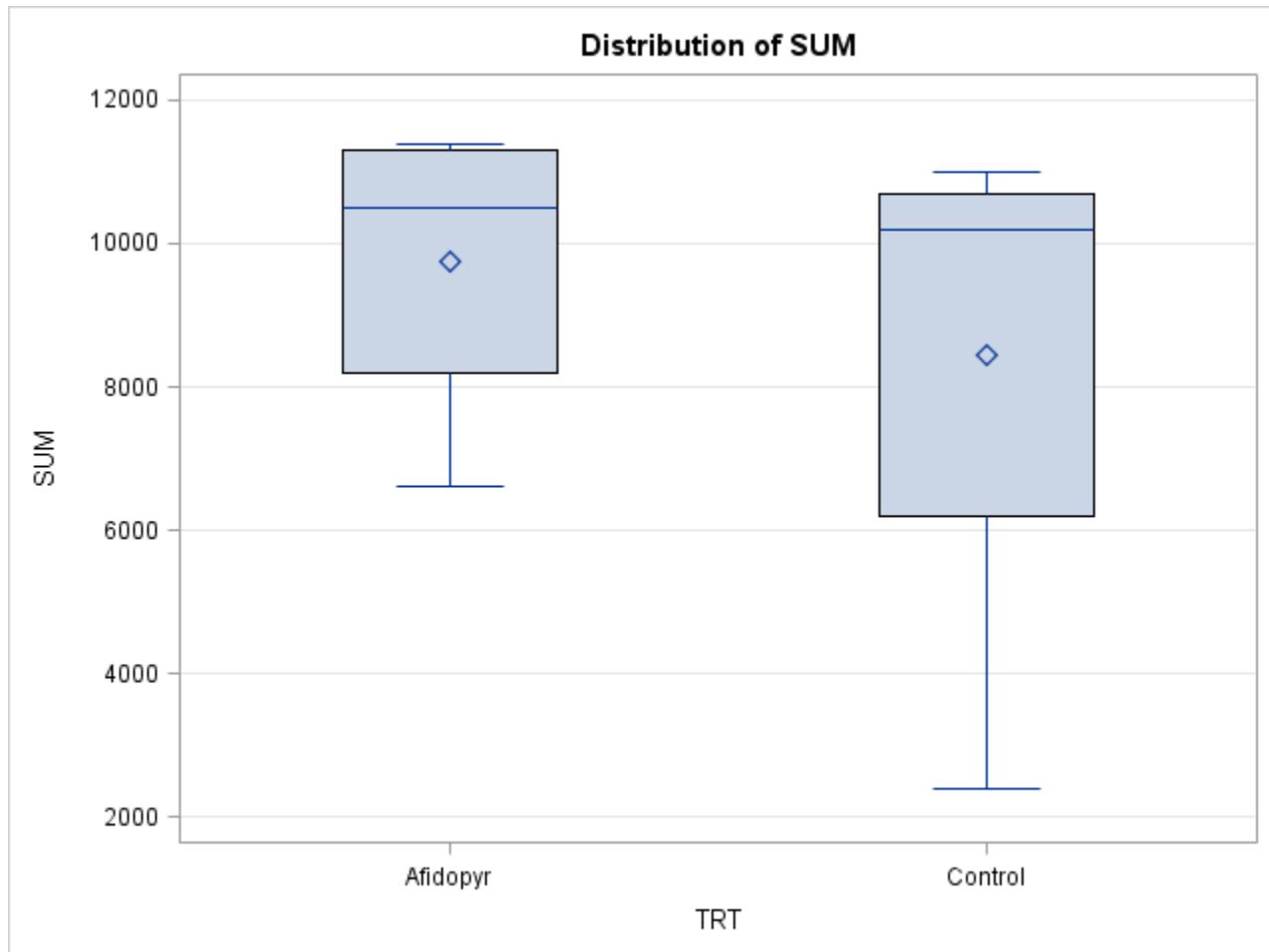
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	3380000.00	3380000.00	0.32	0.5941
<b>Error</b>	6	64060000.00	10676666.67		
<b>Corrected Total</b>	7	67440000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.050119	35.90678	3267.517	9100.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	3380000.000	3380000.000	0.32	0.5941





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Larvae DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Larvae DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	10676667
Critical Value of t	2.44691
Minimum Significant Difference	5653.5

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	9750	4	Afidopyr
A			
A	8450	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Larvae DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

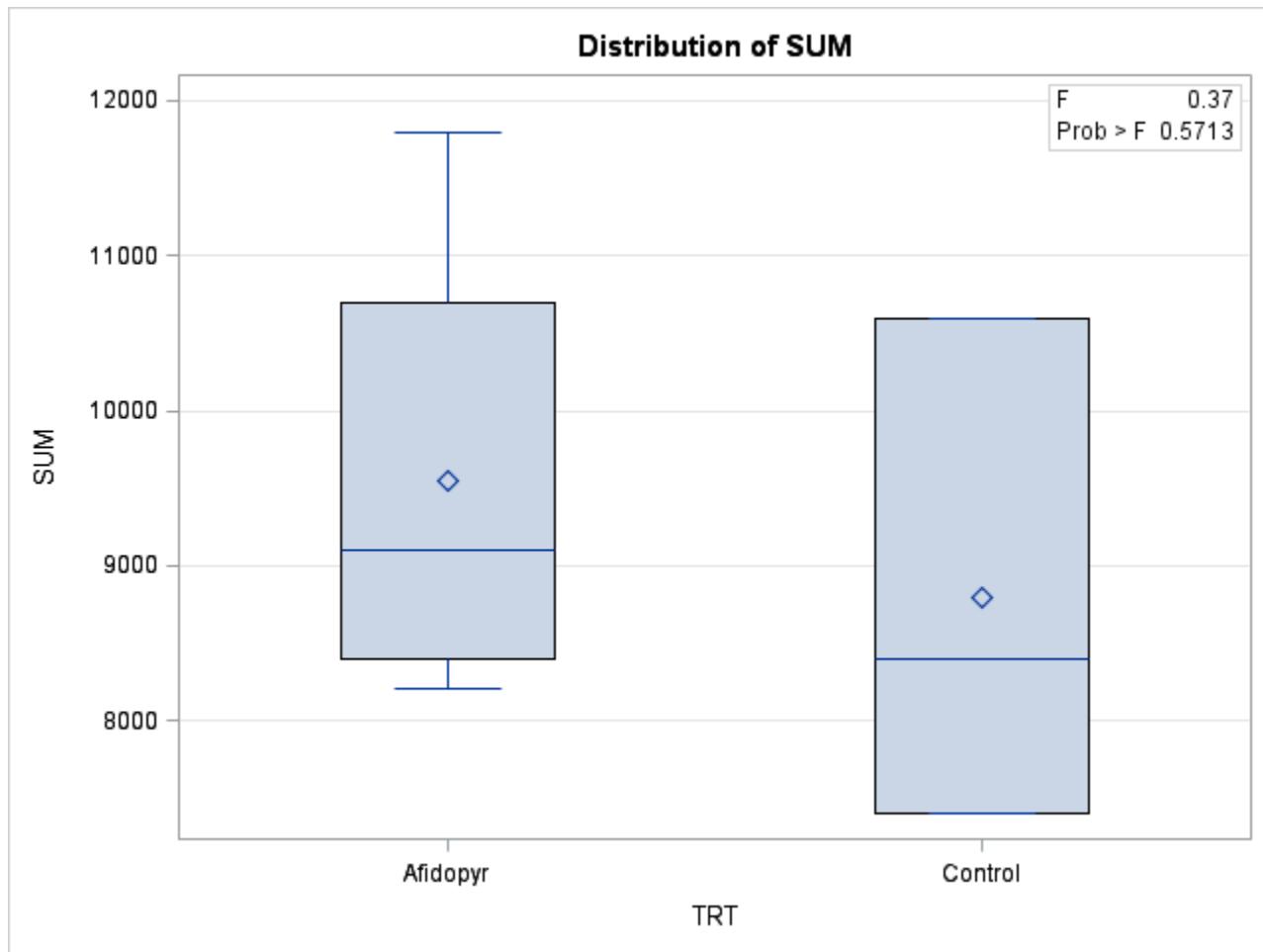
Number of Observations Read	7
Number of Observations Used	7

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Larvae DAT=25**

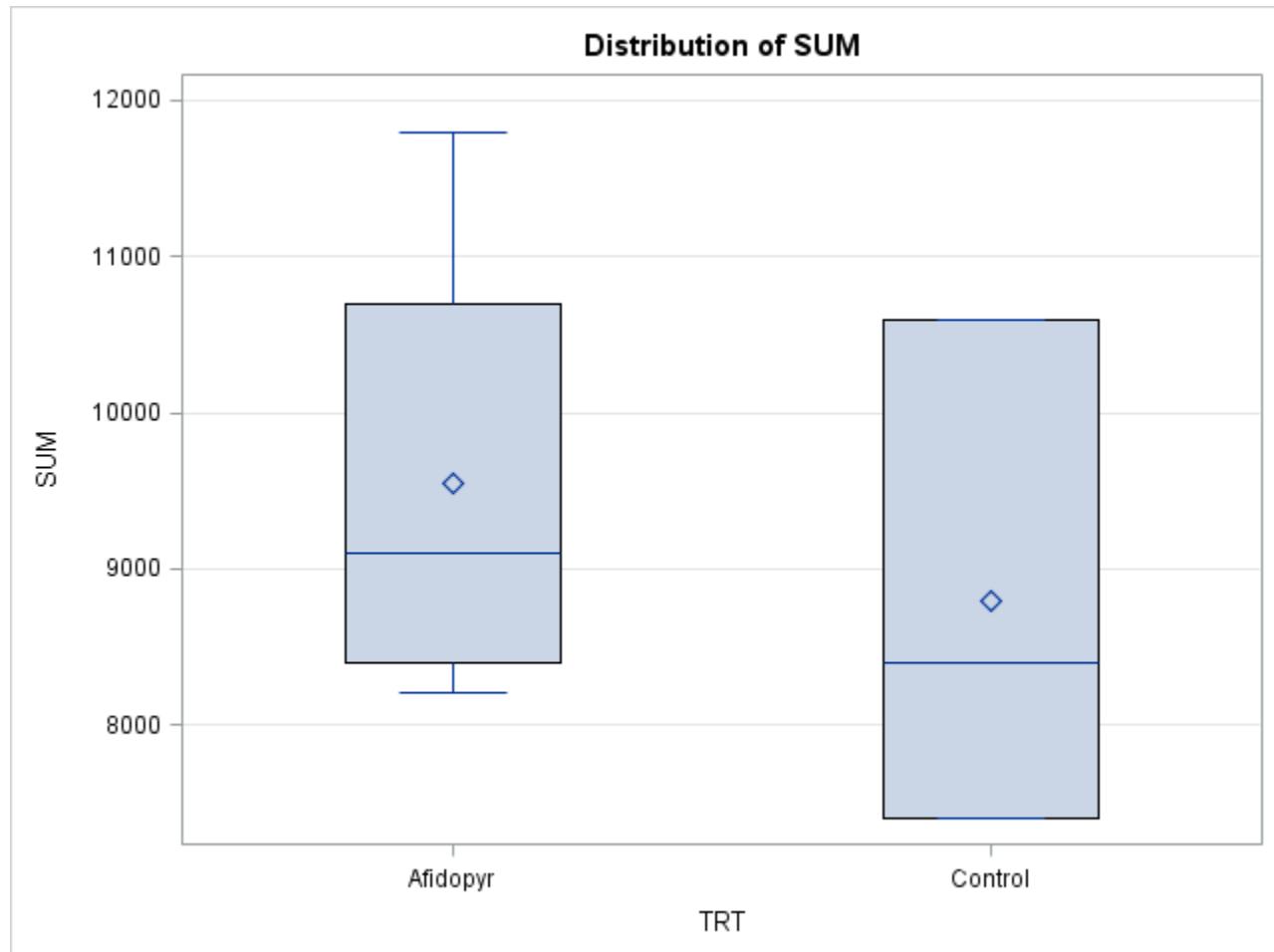
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	964285.71	964285.71	0.37	0.5713
<b>Error</b>	5	13150000.00	2630000.00		
<b>Corrected Total</b>	6	14114285.71			

R-Square	Coeff Var	Root MSE	SUM Mean
0.068320	17.57290	1621.727	9228.571

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	964285.7143	964285.7143	0.37	0.5713





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Larvae DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Larvae DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	2630000
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	3184
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	9550	4	Afidopyr
A			
A	8800	3	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Larvae DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

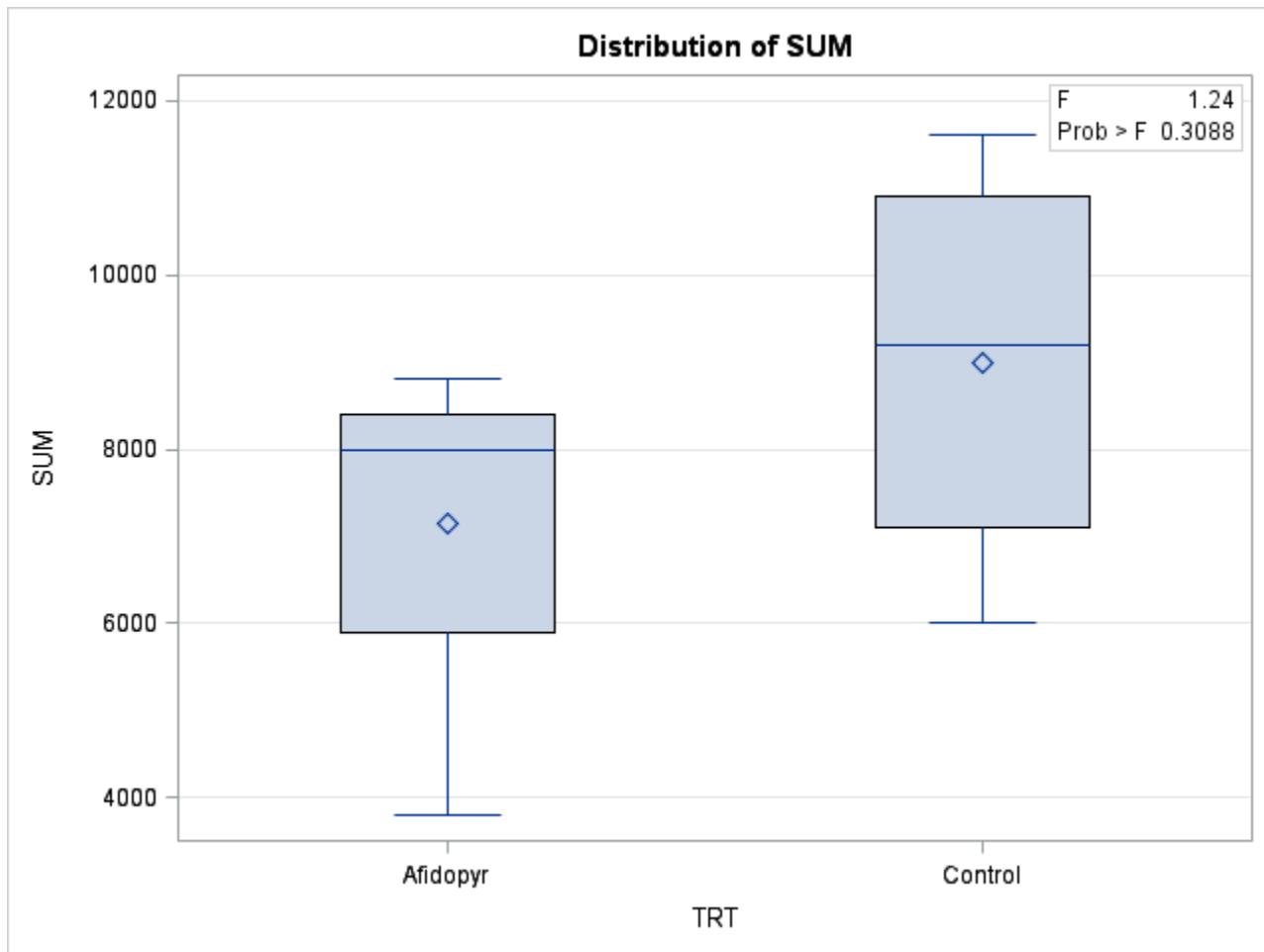
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Larvae DAT=4**

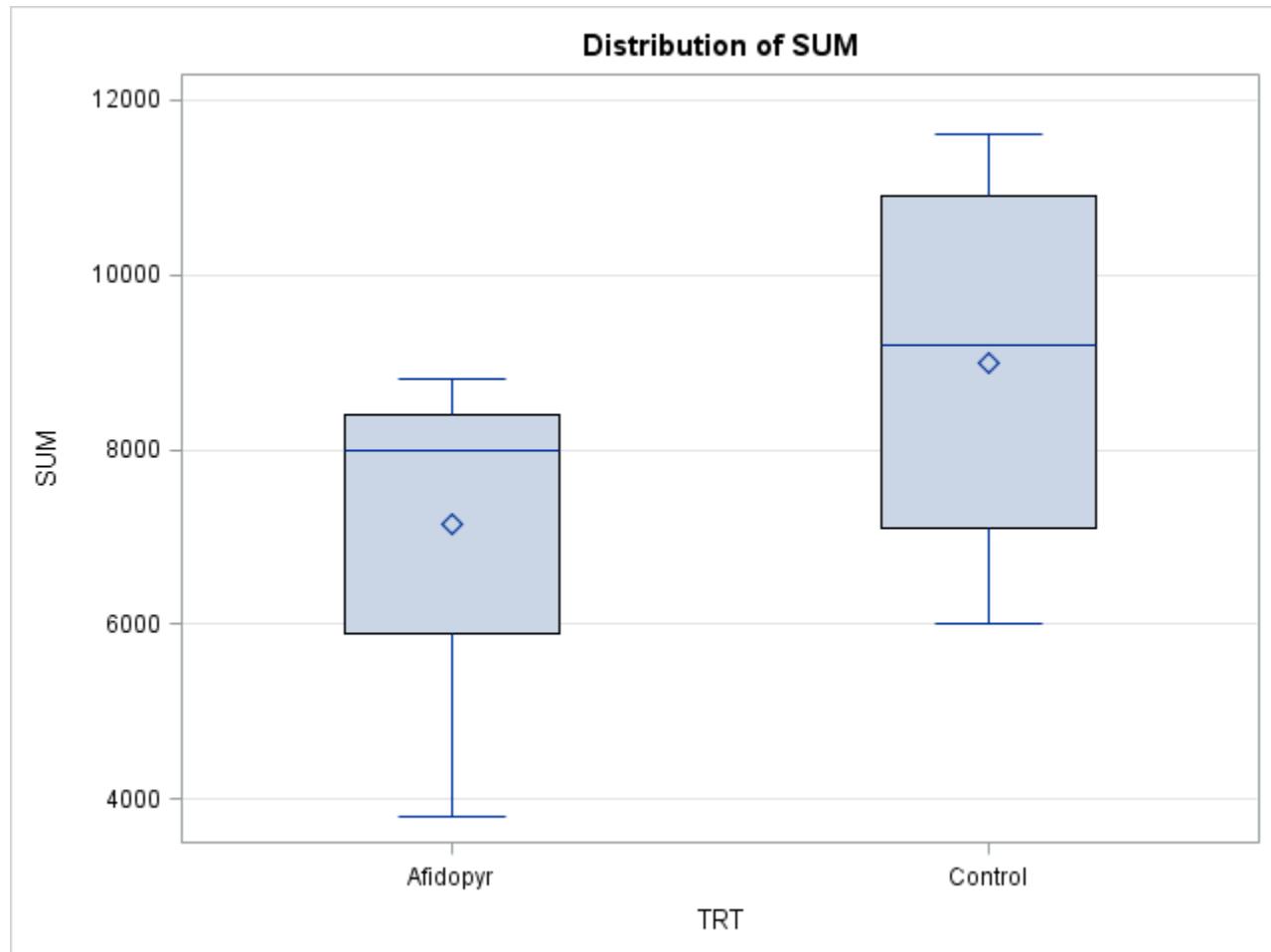
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	6845000.00	6845000.00	1.24	0.3088
<b>Error</b>	6	33230000.00	5538333.33		
<b>Corrected Total</b>	7	40075000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.170805	29.14386	2353.366	8075.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	6845000.000	6845000.000	1.24	0.3088





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Larvae DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Larvae DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	5538333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	4071.9

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	9000	4	Control
A			
A	7150	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Male DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

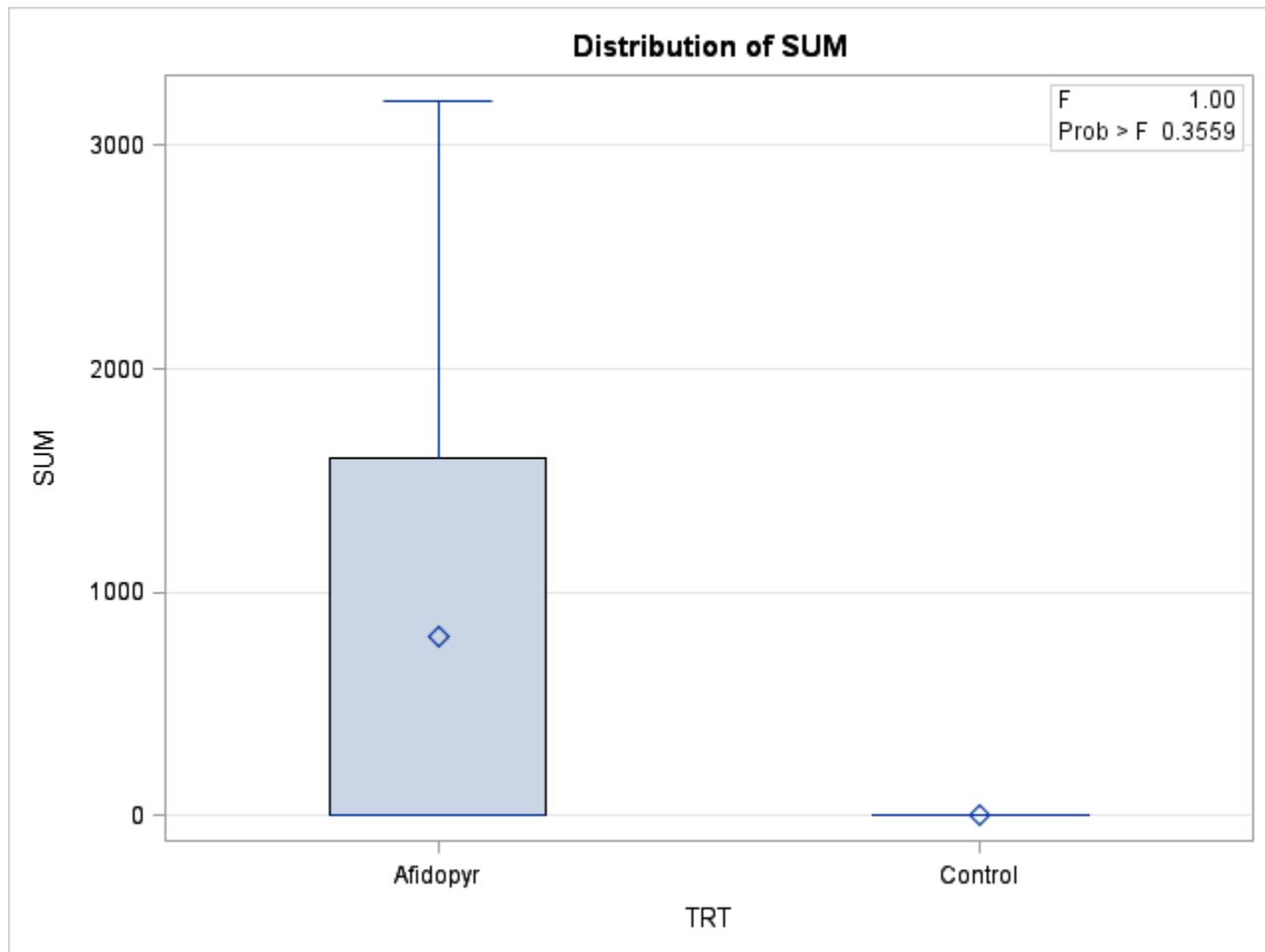
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Male DAT=-3**

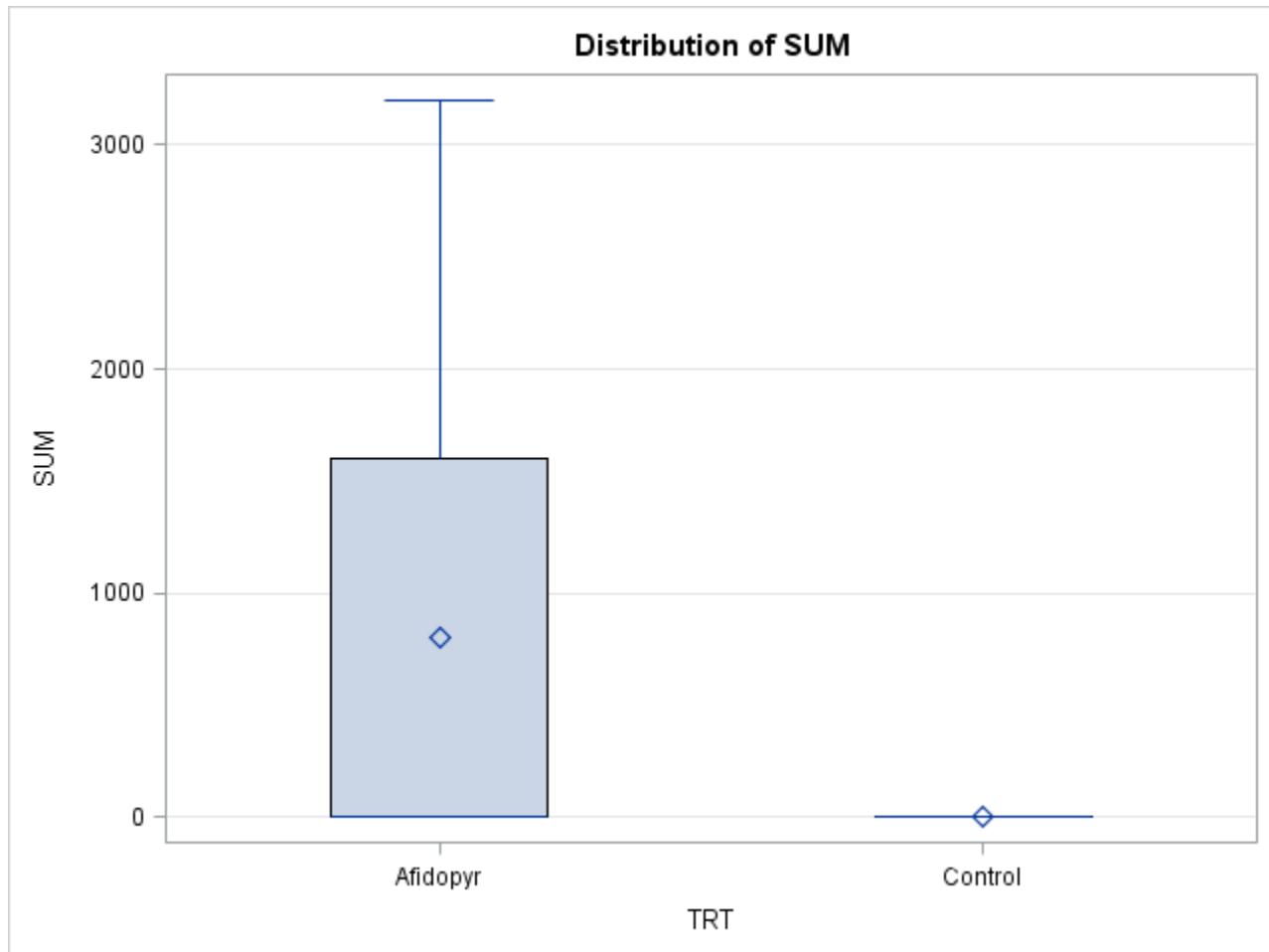
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1280000.000	1280000.000	1.00	0.3559
<b>Error</b>	6	7680000.000	1280000.000		
<b>Corrected Total</b>	7	8960000.000			

R-Square	Coeff Var	Root MSE	SUM Mean
0.142857	282.8427	1131.371	400.0000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1280000.000	1280000.000	1.00	0.3559





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Male DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Male DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	1280000
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	1957.5

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	800.0	4	Afidopyr
A			
A	0.0	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Male DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

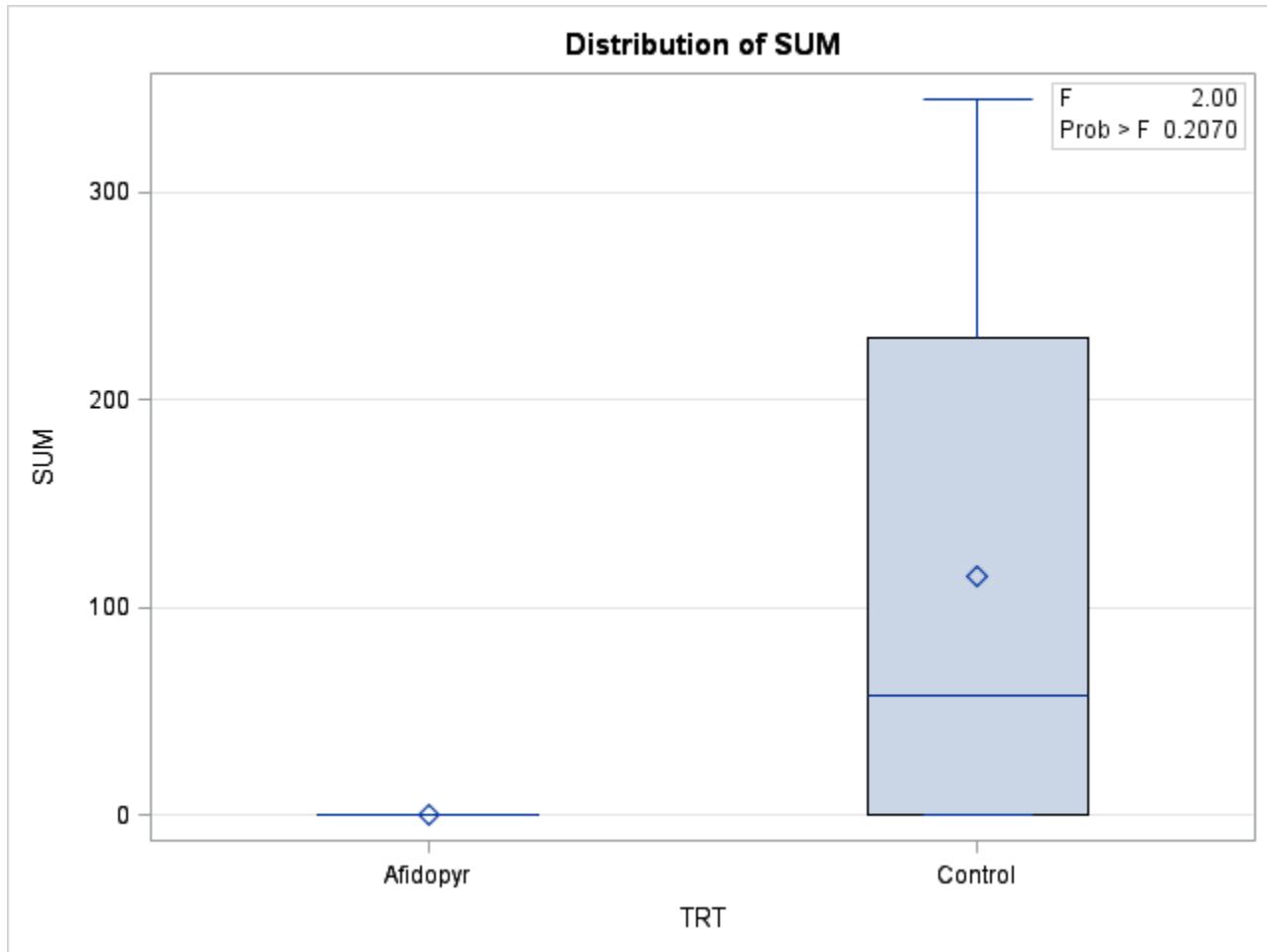
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Male DAT=11**

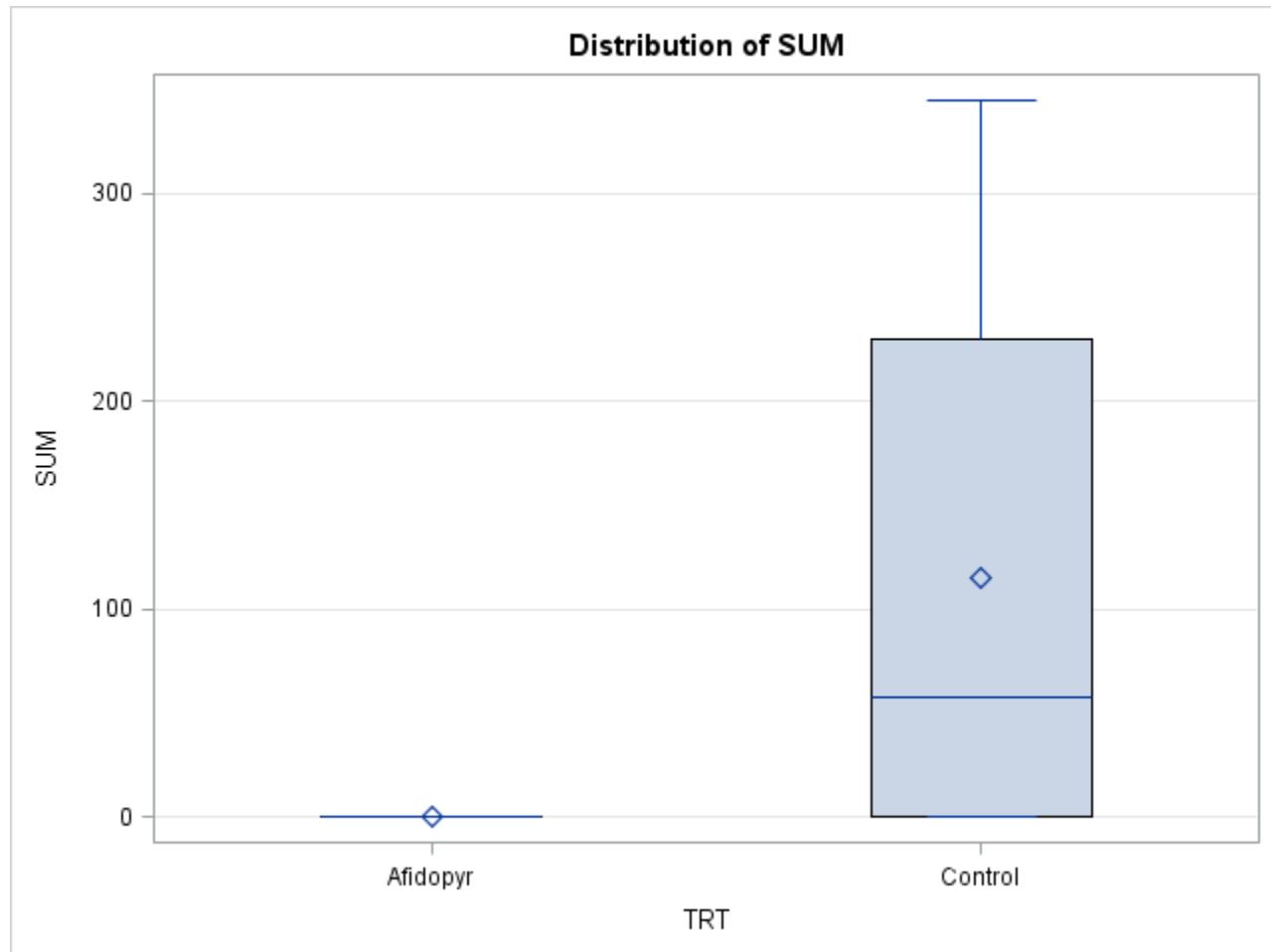
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	26450.0000	26450.0000	2.00	0.2070
<b>Error</b>	6	79350.0000	13225.0000		
<b>Corrected Total</b>	7	105800.0000			

R-Square	Coeff Var	Root MSE	SUM Mean
0.250000	200.0000	115.0000	57.50000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	26450.00000	26450.00000	2.00	0.2070





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Male DAT=11**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Male DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	13225
Critical Value of t	2.44691
Minimum Significant Difference	198.98

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	115.00	4	Control
A			
A	0.00	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Male DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

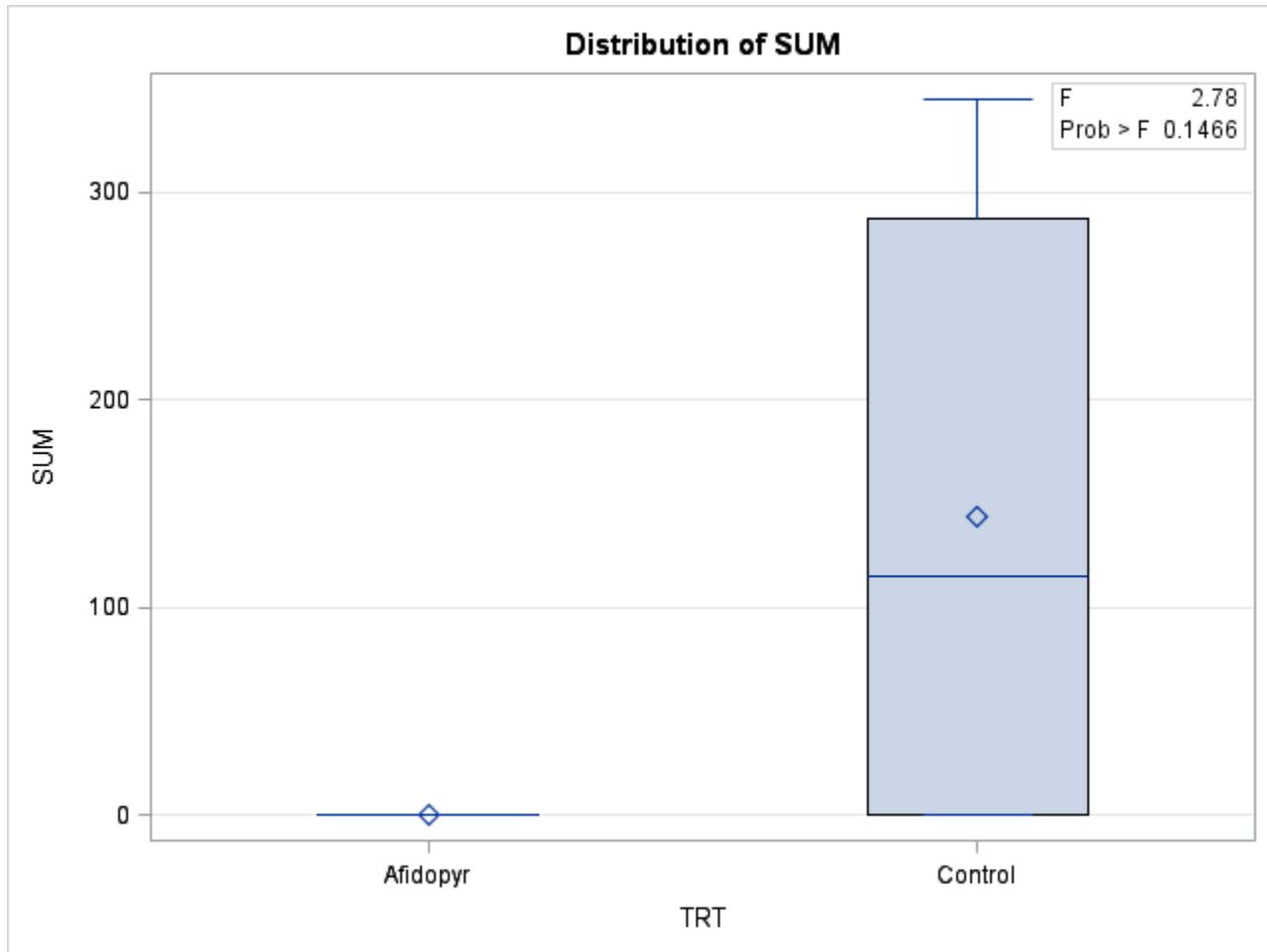
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Male DAT=18**

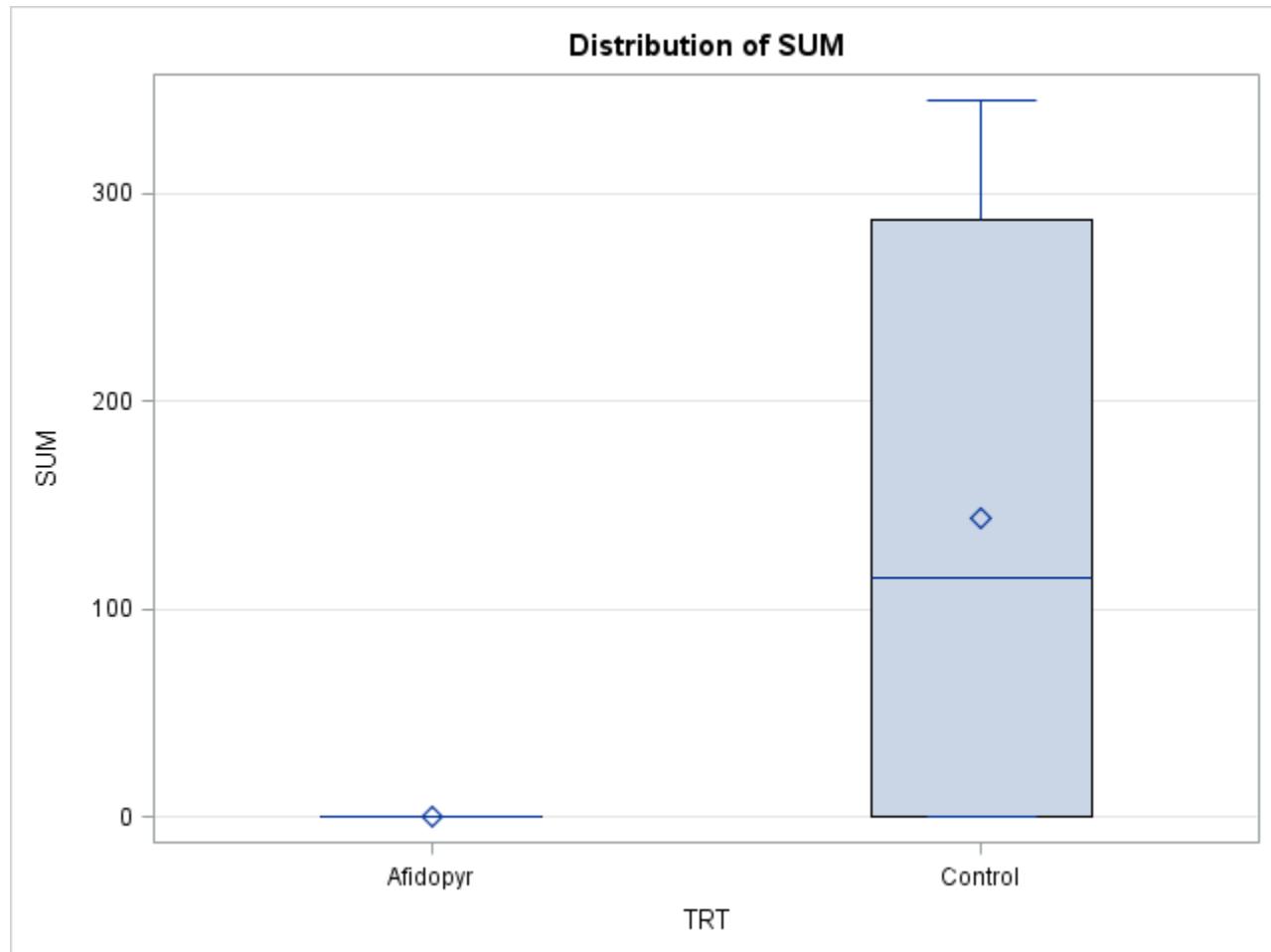
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	41328.1250	41328.1250	2.78	0.1466
<b>Error</b>	6	89268.7500	14878.1250		
<b>Corrected Total</b>	7	130596.8750			

R-Square	Coeff Var	Root MSE	SUM Mean
0.316456	169.7056	121.9759	71.87500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	41328.12500	41328.12500	2.78	0.1466





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Male DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Male DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	14878.13
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	211.05

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	143.75	4	Control
A			
A	0.00	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Male DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

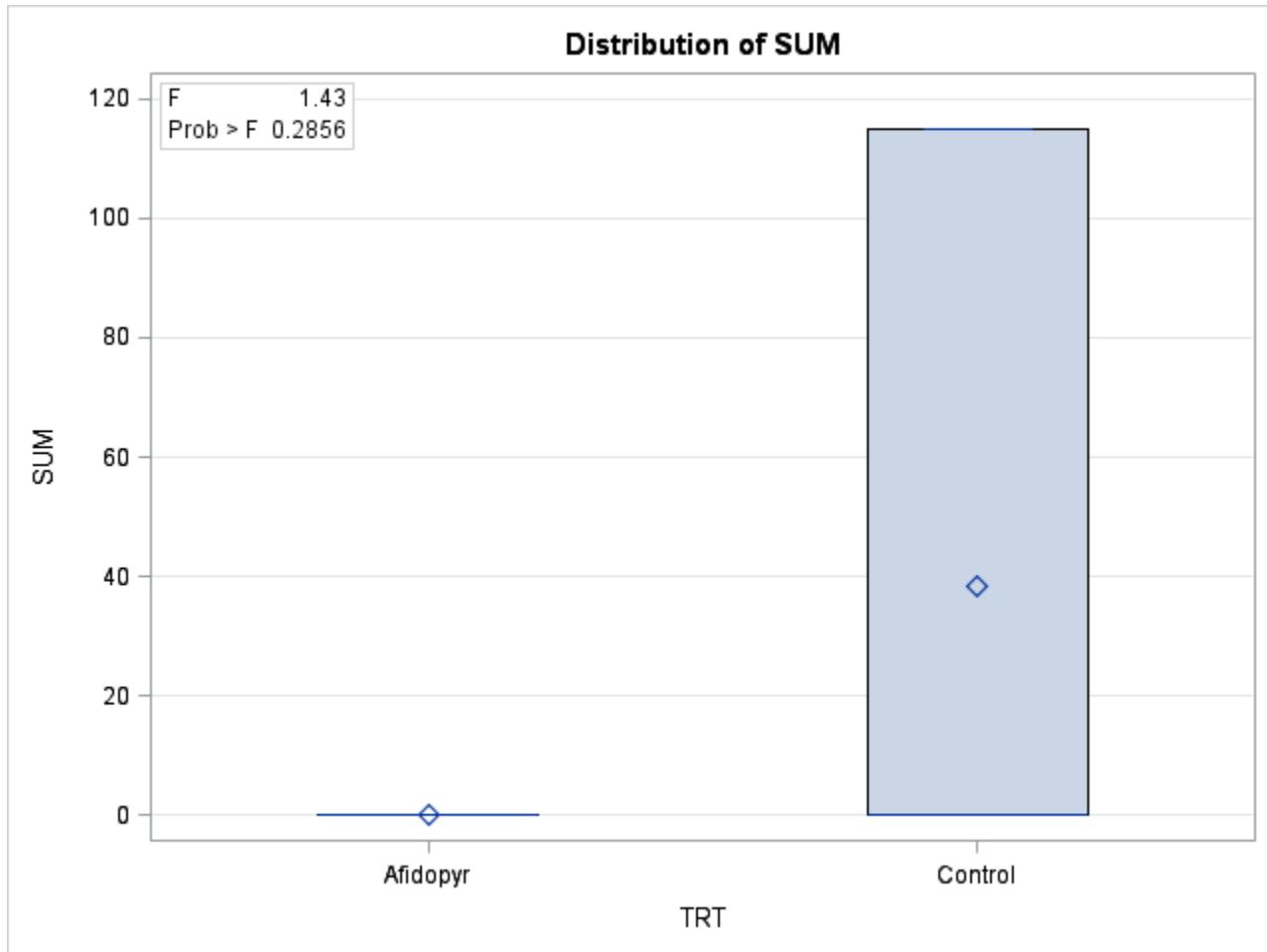
Number of Observations Read	7
Number of Observations Used	7

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Male DAT=25**

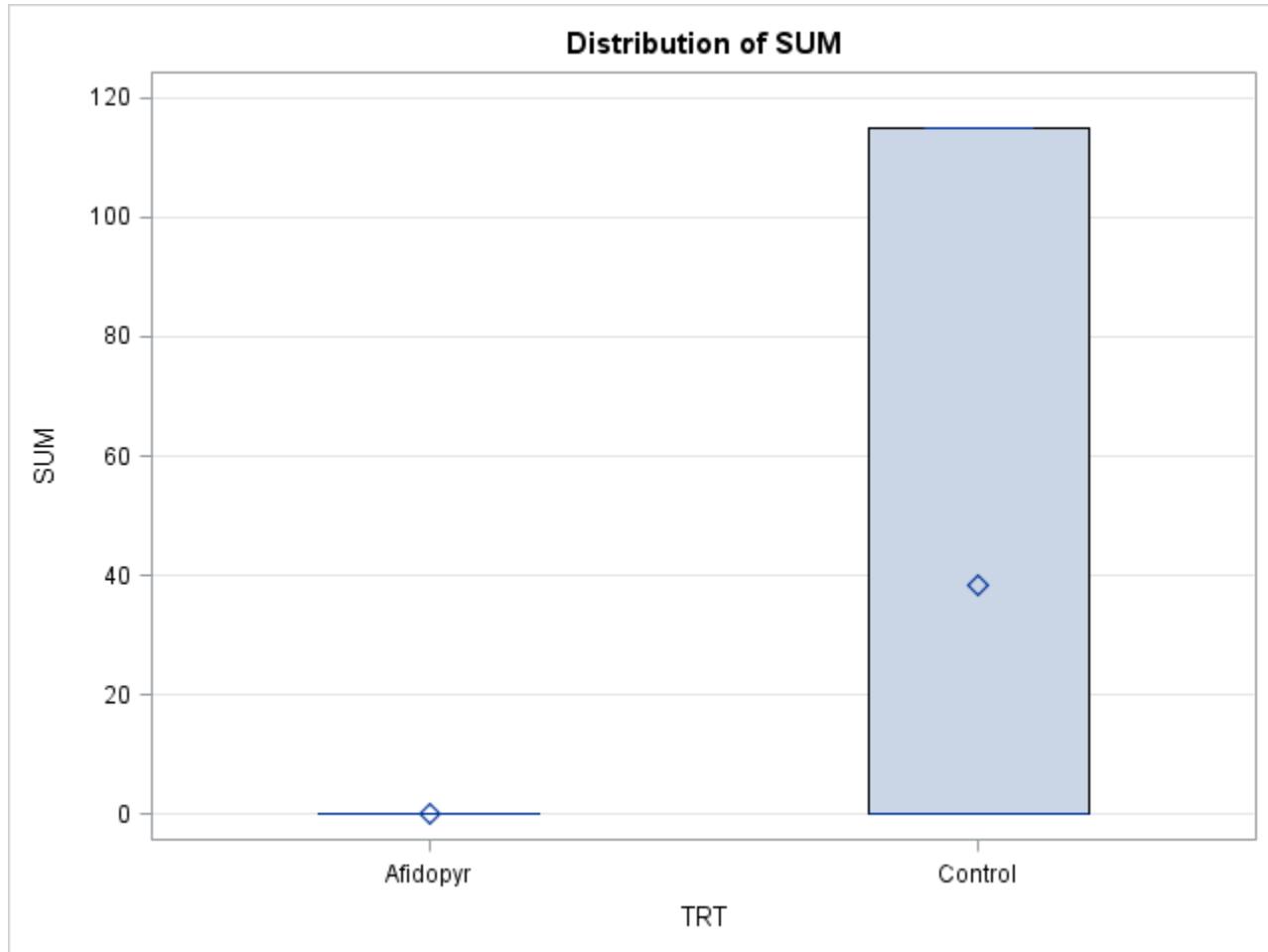
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	2519.04762	2519.04762	1.43	0.2856
<b>Error</b>	5	8816.66667	1763.33333		
<b>Corrected Total</b>	6	11335.71429			

R-Square	Coeff Var	Root MSE	SUM Mean
0.222222	255.6039	41.99206	16.42857

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	2519.047619	2519.047619	1.43	0.2856





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Male DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Male DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	1763.333
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	82.444
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	38.33	3	Control
A			
A	0.00	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Male DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

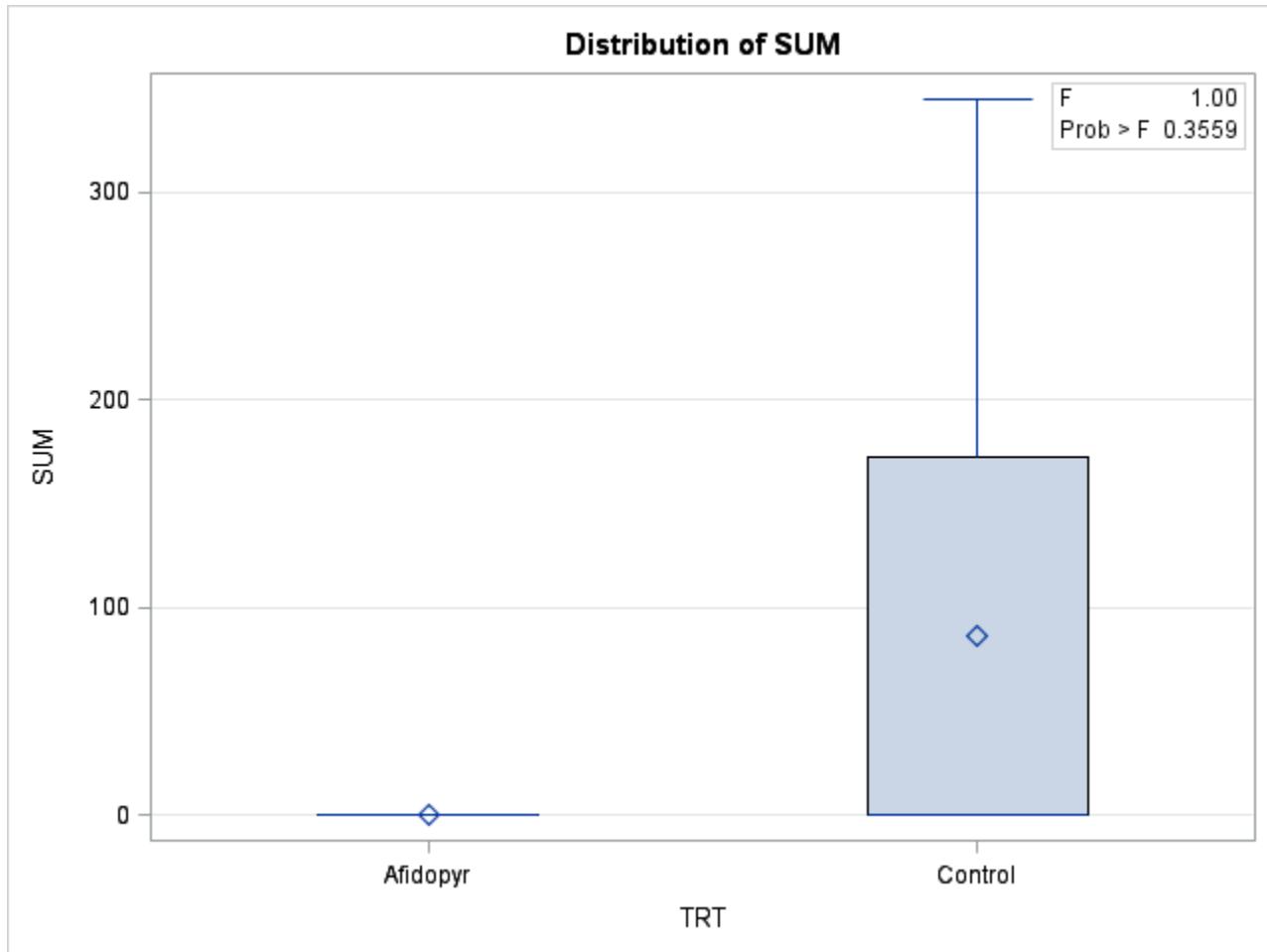
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Male DAT=4**

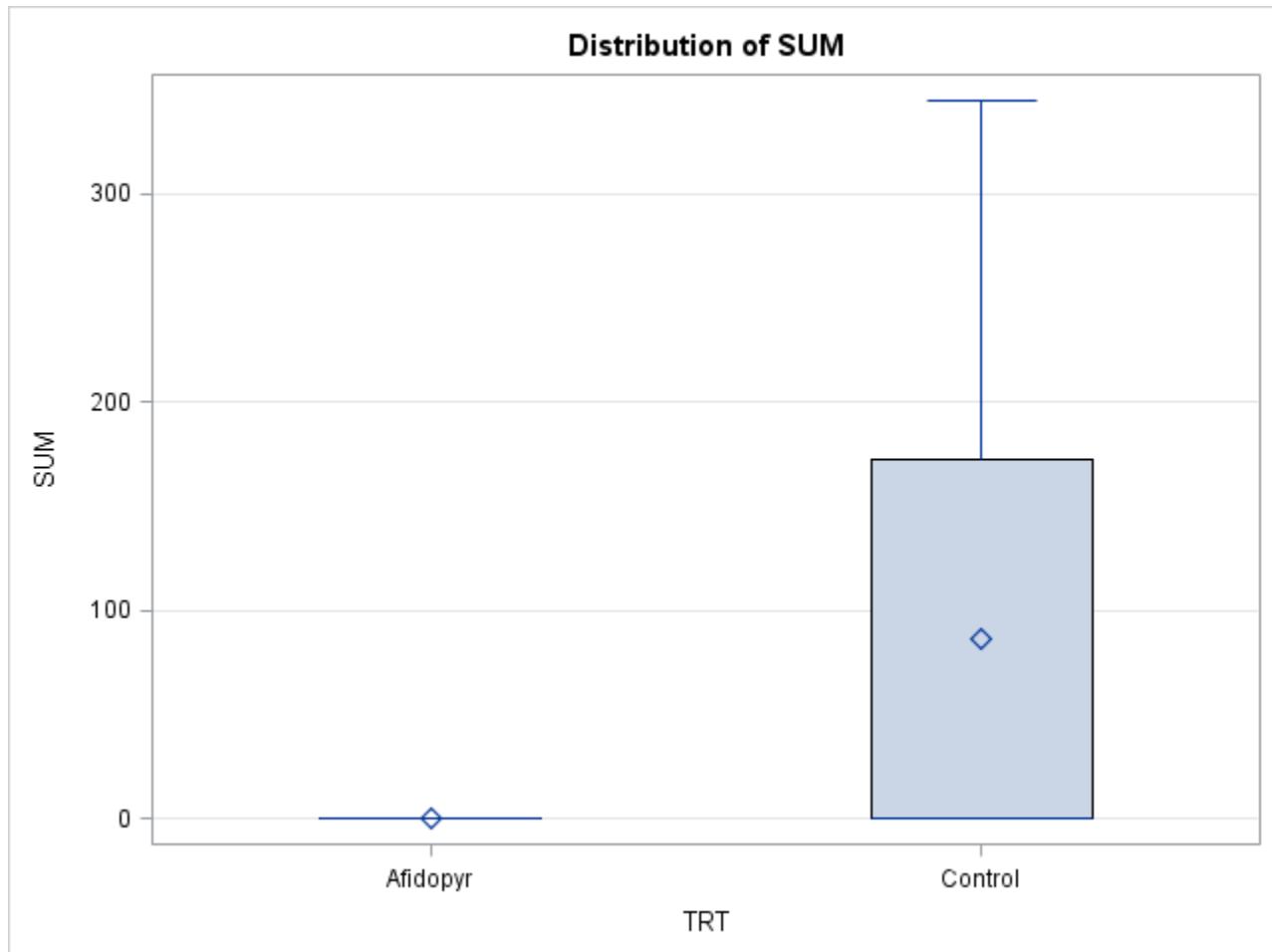
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	14878.1250	14878.1250	1.00	0.3559
<b>Error</b>	6	89268.7500	14878.1250		
<b>Corrected Total</b>	7	104146.8750			

R-Square	Coeff Var	Root MSE	SUM Mean
0.142857	282.8427	121.9759	43.12500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	14878.12500	14878.12500	1.00	0.3559





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Male DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Male DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	14878.13
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	211.05

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	86.25	4	Control
A			
A	0.00	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pollen DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

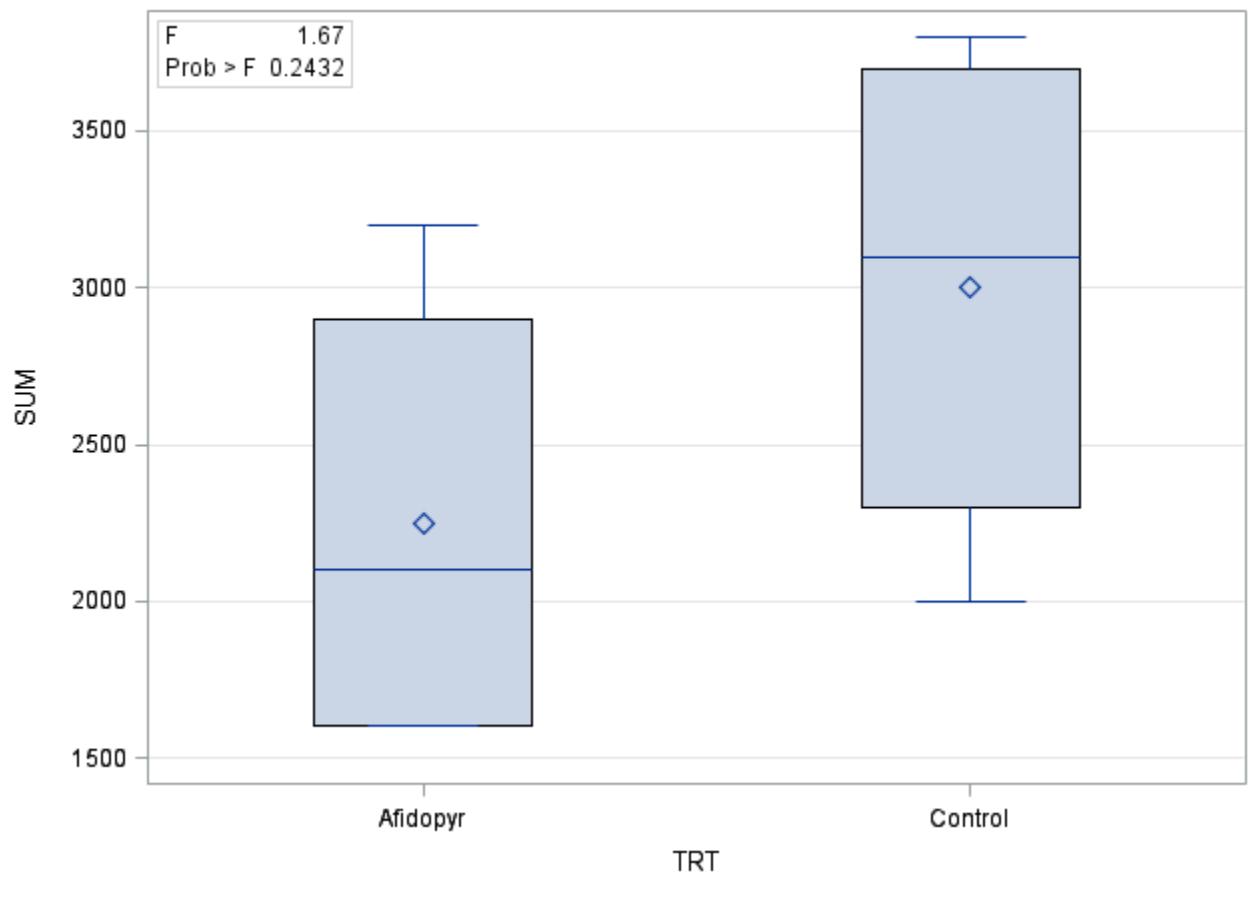
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pollen DAT=-3**

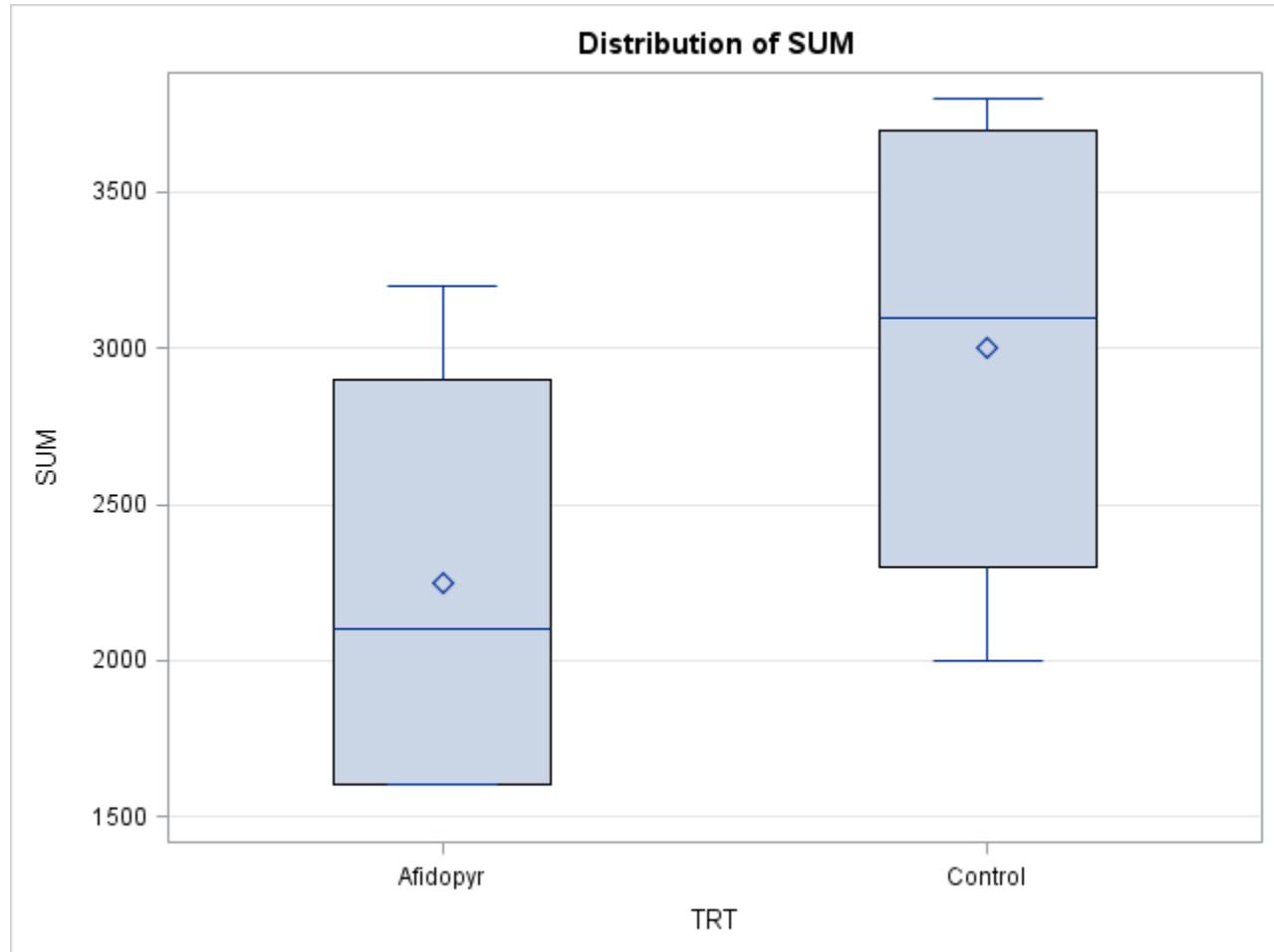
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1125000.000	1125000.000	1.67	0.2432
<b>Error</b>	6	4030000.000	671666.667		
<b>Corrected Total</b>	7	5155000.000			

R-Square	Coeff Var	Root MSE	SUM Mean
0.218235	31.22106	819.5527	2625.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1125000.000	1125000.000	1.67	0.2432

**Distribution of SUM**



**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pollen DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pollen DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	671666.7
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	1418

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	3000.0	4	Control
A			
A	2250.0	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pollen DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

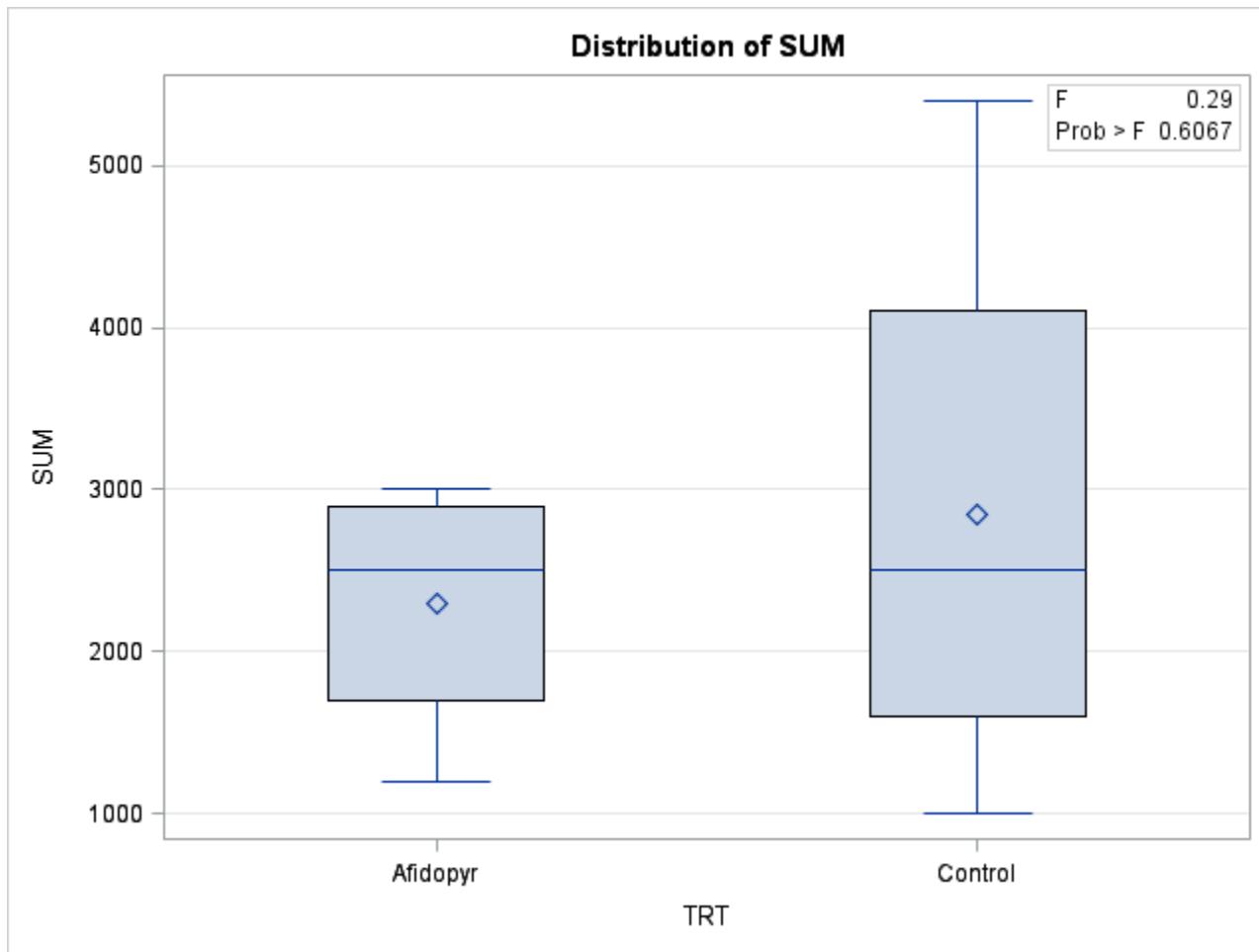
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pollen DAT=11**

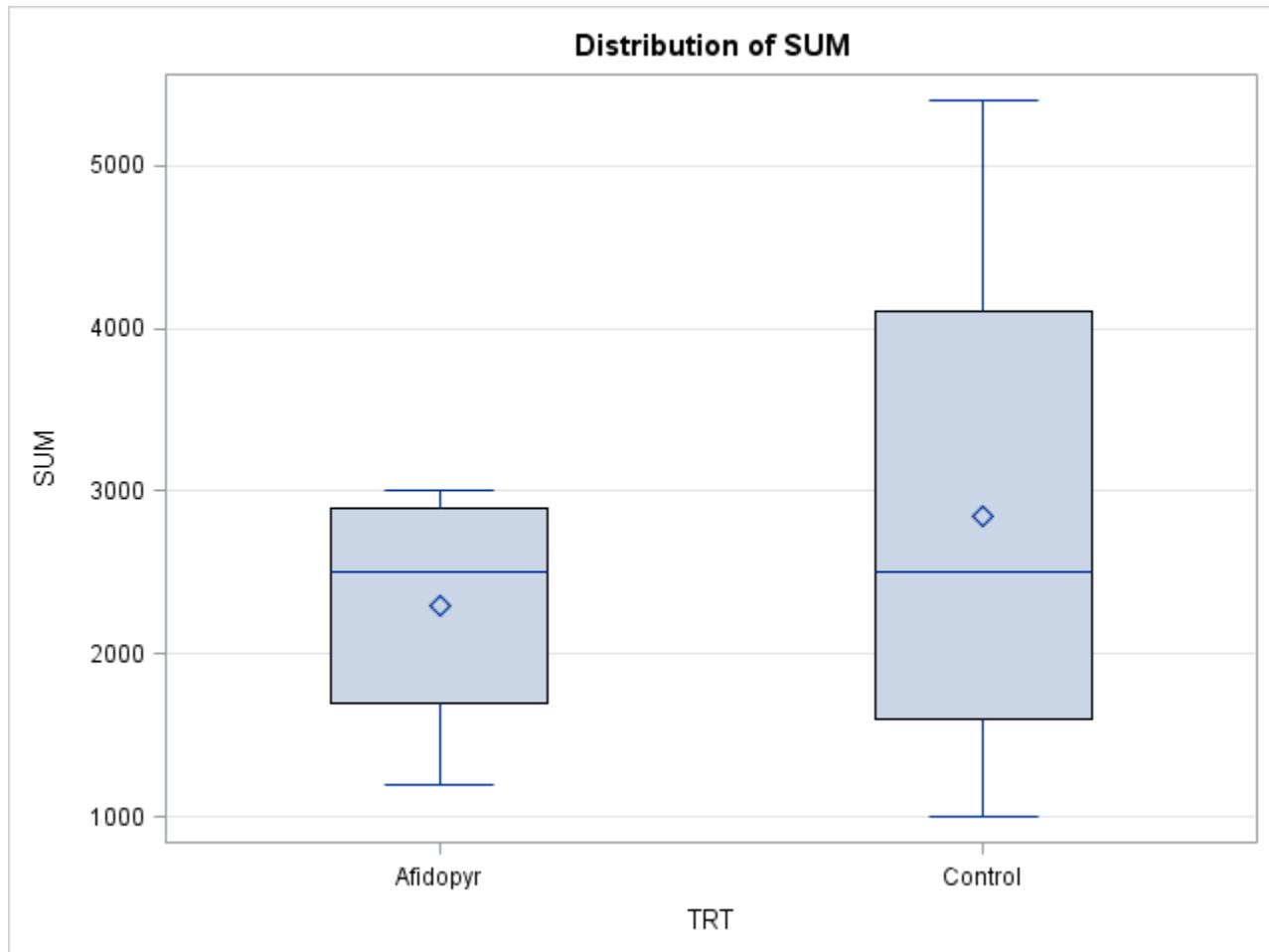
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	605000.00	605000.00	0.29	0.6067
<b>Error</b>	6	12310000.00	2051666.67		
<b>Corrected Total</b>	7	12915000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.046845	55.62579	1432.364	2575.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	605000.0000	605000.0000	0.29	0.6067





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pollen DAT=11**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pollen DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	2051667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	2478.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	2850	4	Control
A			
A	2300	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pollen DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

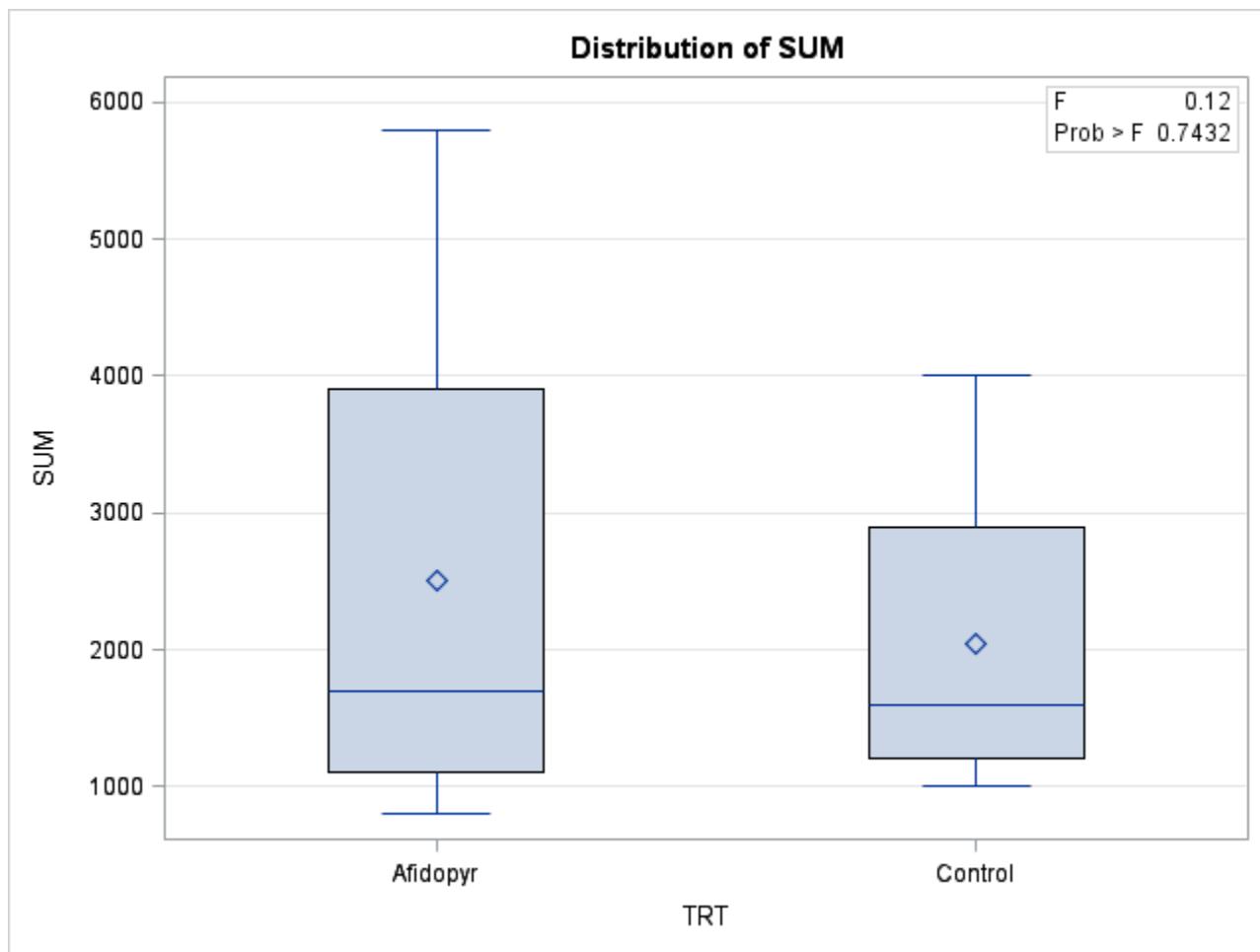
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pollen DAT=18**

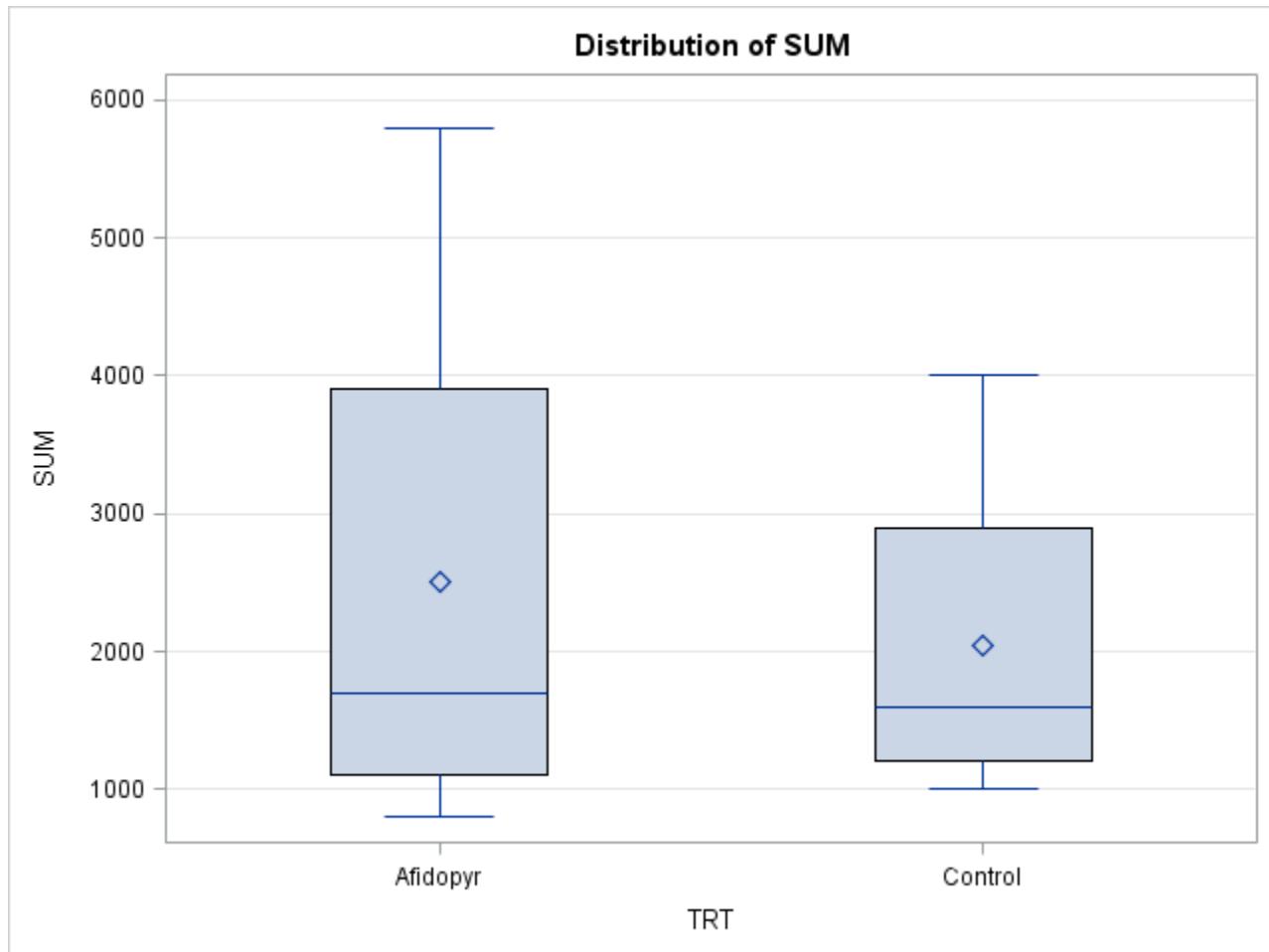
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	405000.00	405000.00	0.12	0.7432
<b>Error</b>	6	20630000.00	3438333.33		
<b>Corrected Total</b>	7	21035000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.019254	81.50656	1854.274	2275.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	405000.0000	405000.0000	0.12	0.7432





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pollen DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pollen DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	3438333
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	3208.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	2500	4	Afidopyr
A			
A	2050	4	Control

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pollen DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

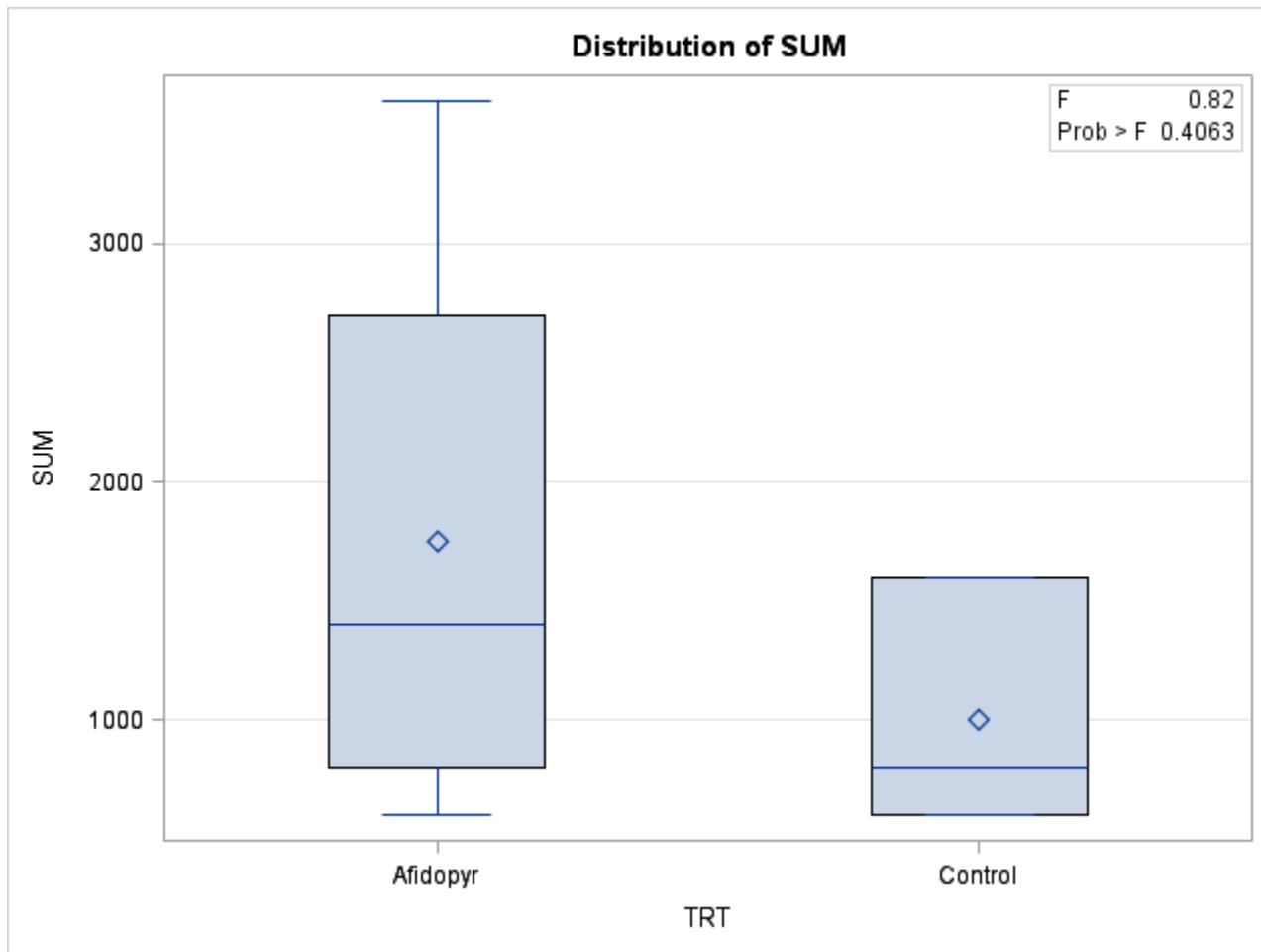
Number of Observations Read	7
Number of Observations Used	7

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pollen DAT=25**

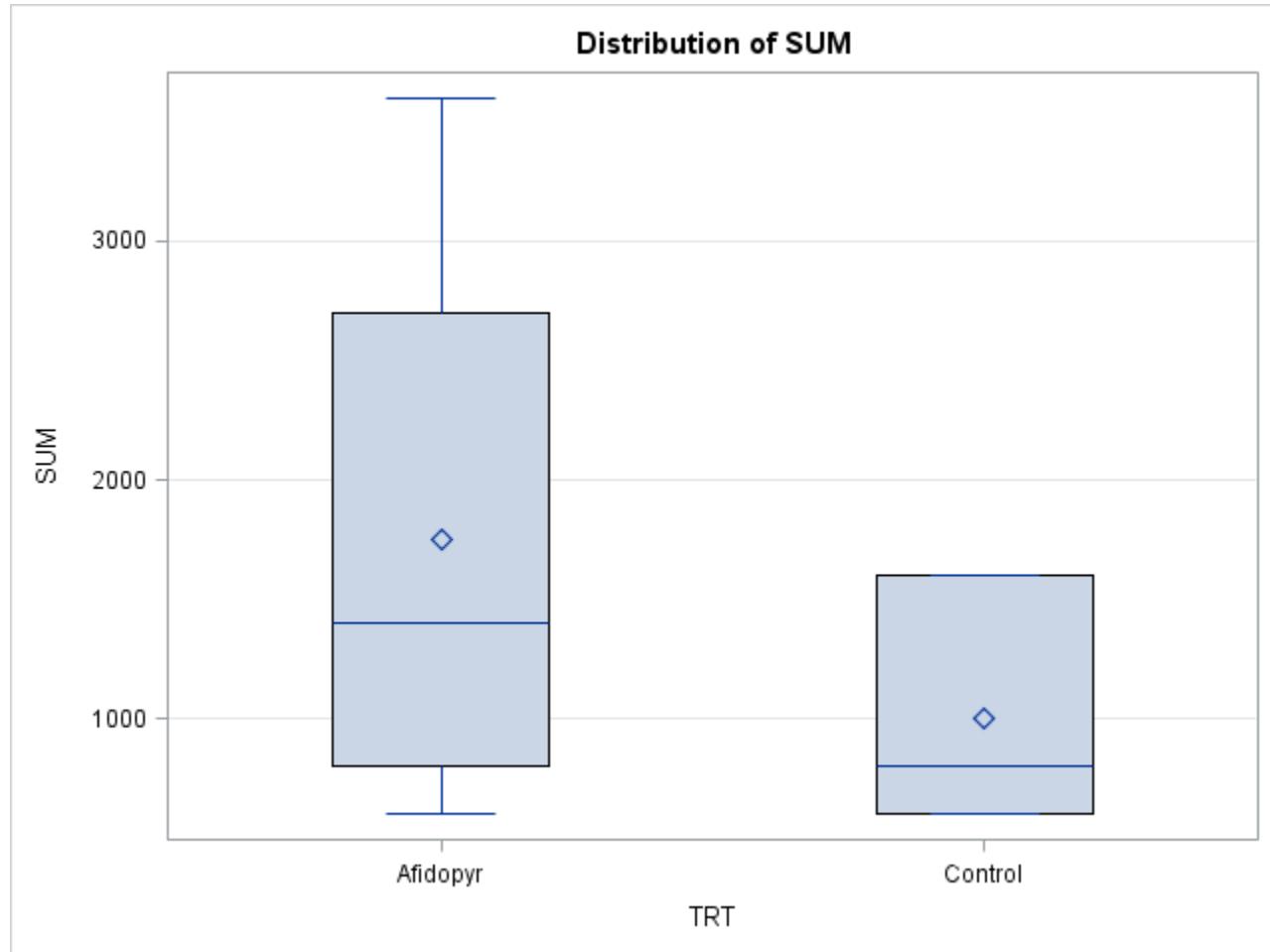
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	964285.714	964285.714	0.82	0.4063
<b>Error</b>	5	5870000.000	1174000.000		
<b>Corrected Total</b>	6	6834285.714			

R-Square	Coeff Var	Root MSE	SUM Mean
0.141095	75.84590	1083.513	1428.571

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	964285.7143	964285.7143	0.82	0.4063





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pollen DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pollen DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	1174000
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	2127.3
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	1750.0	4	Afidopyr
A			
A	1000.0	3	Control

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

MATRIX=Pollen DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

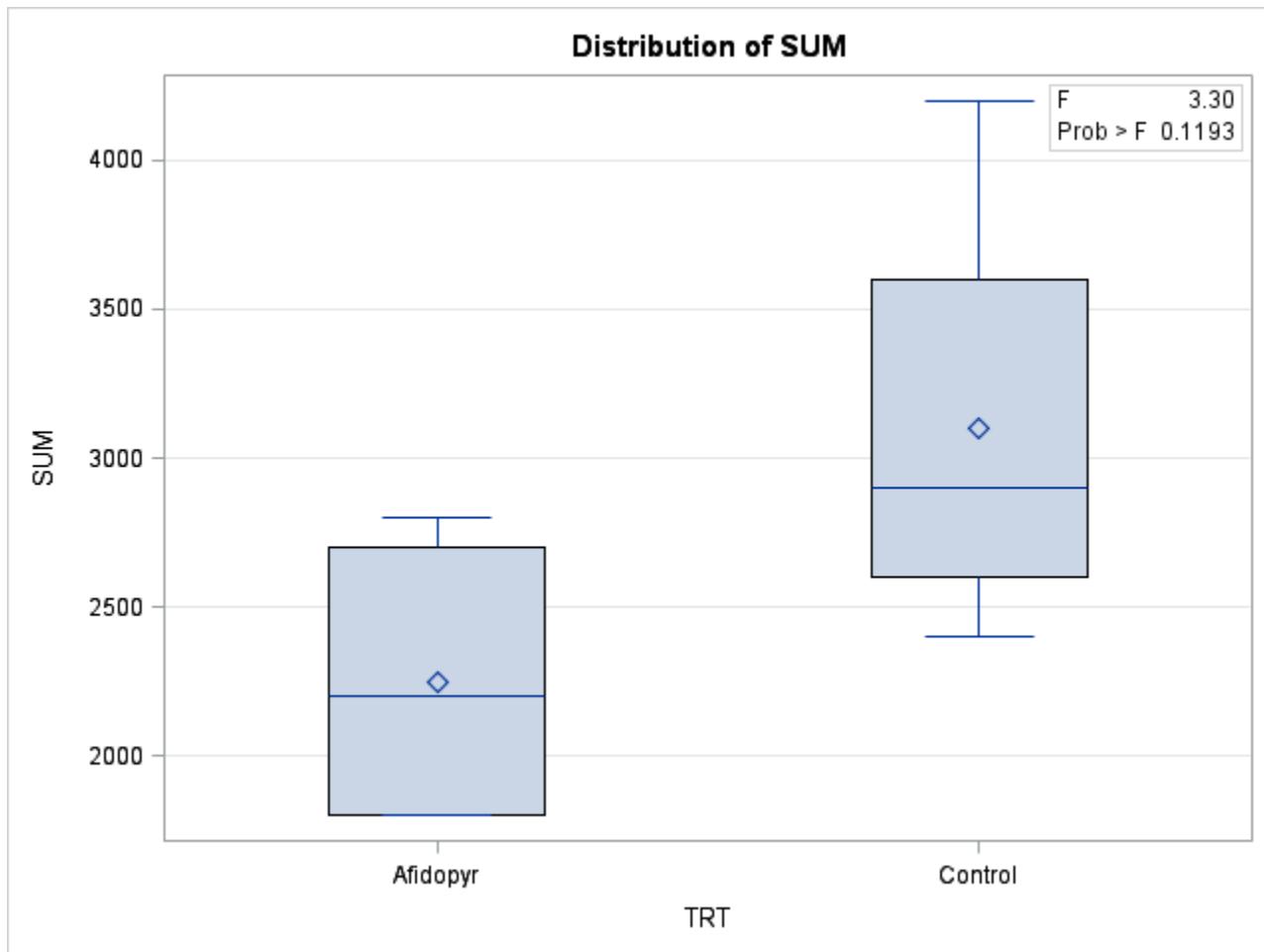
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pollen DAT=4**

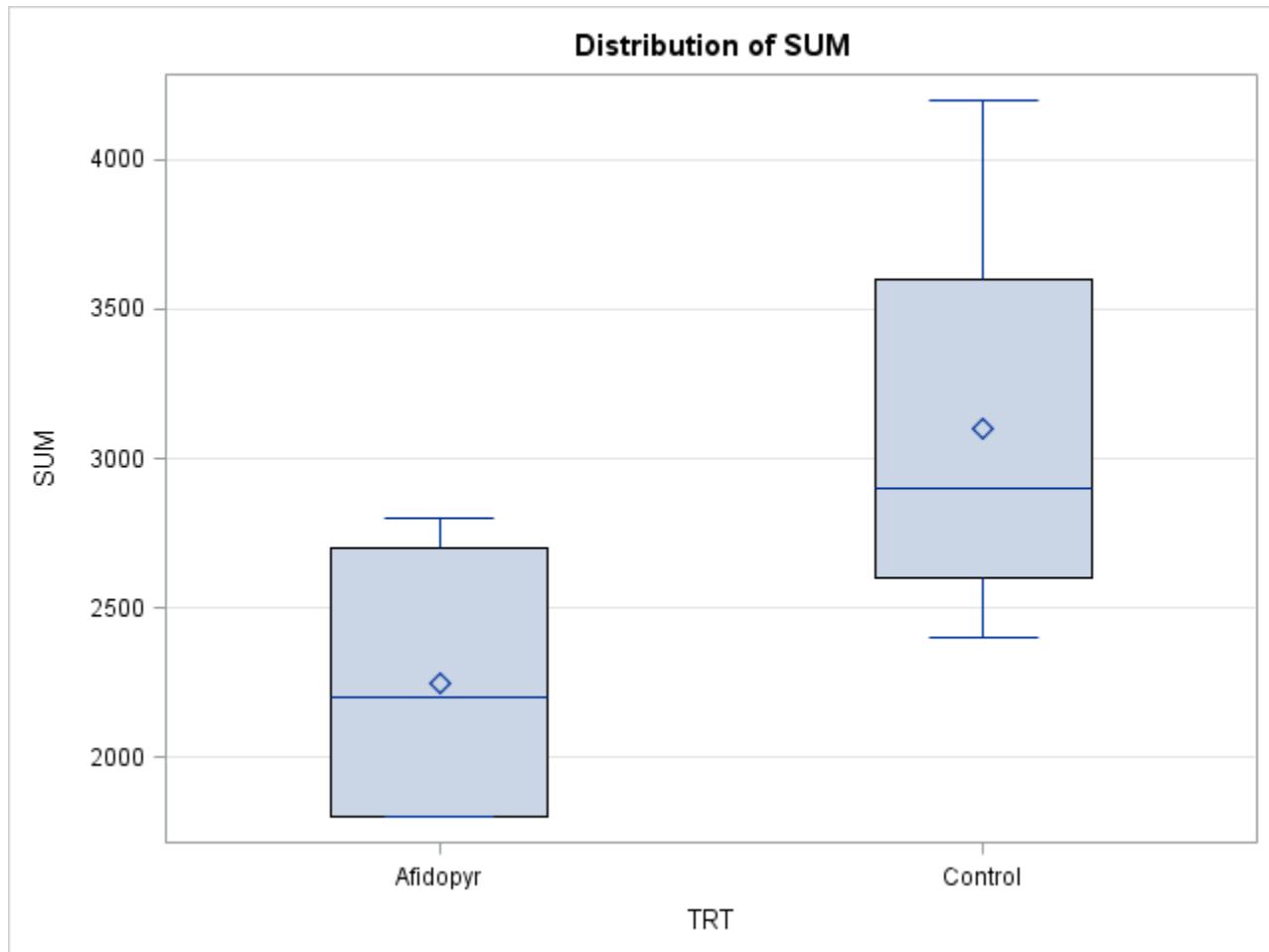
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	1445000.000	1445000.000	3.30	0.1193
<b>Error</b>	6	2630000.000	438333.333		
<b>Corrected Total</b>	7	4075000.000			

R-Square	Coeff Var	Root MSE	SUM Mean
0.354601	24.75019	662.0675	2675.000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	1445000.000	1445000.000	3.30	0.1193





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pollen DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pollen DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	438333.3
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	1145.5

Means with the same letter are not significantly different.			
<b>Bon Grouping</b>	<b>Mean</b>	<b>N</b>	<b>TRT</b>
A	3100.0	4	Control
A			
A	2250.0	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pupae DAT=-3

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

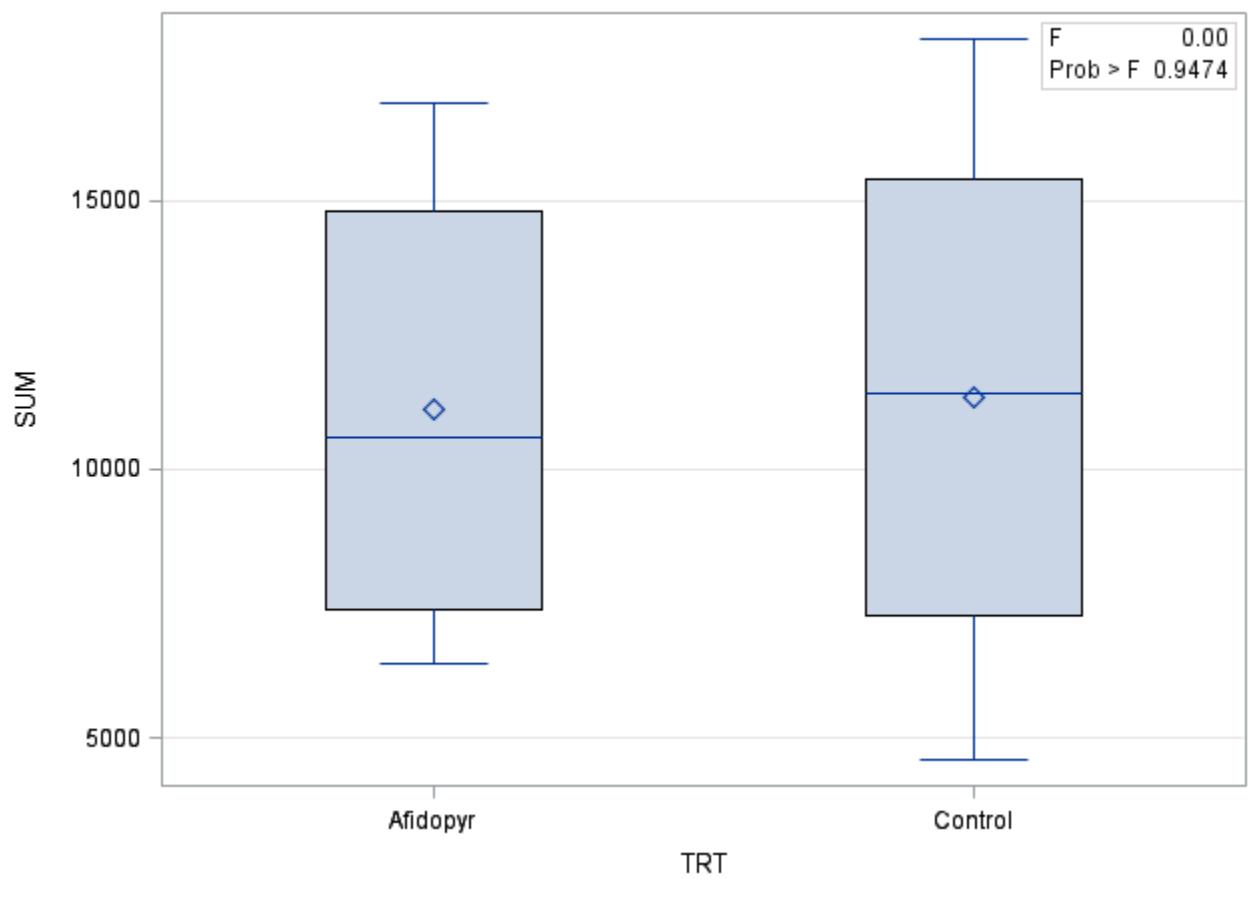
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pupae DAT=-3**

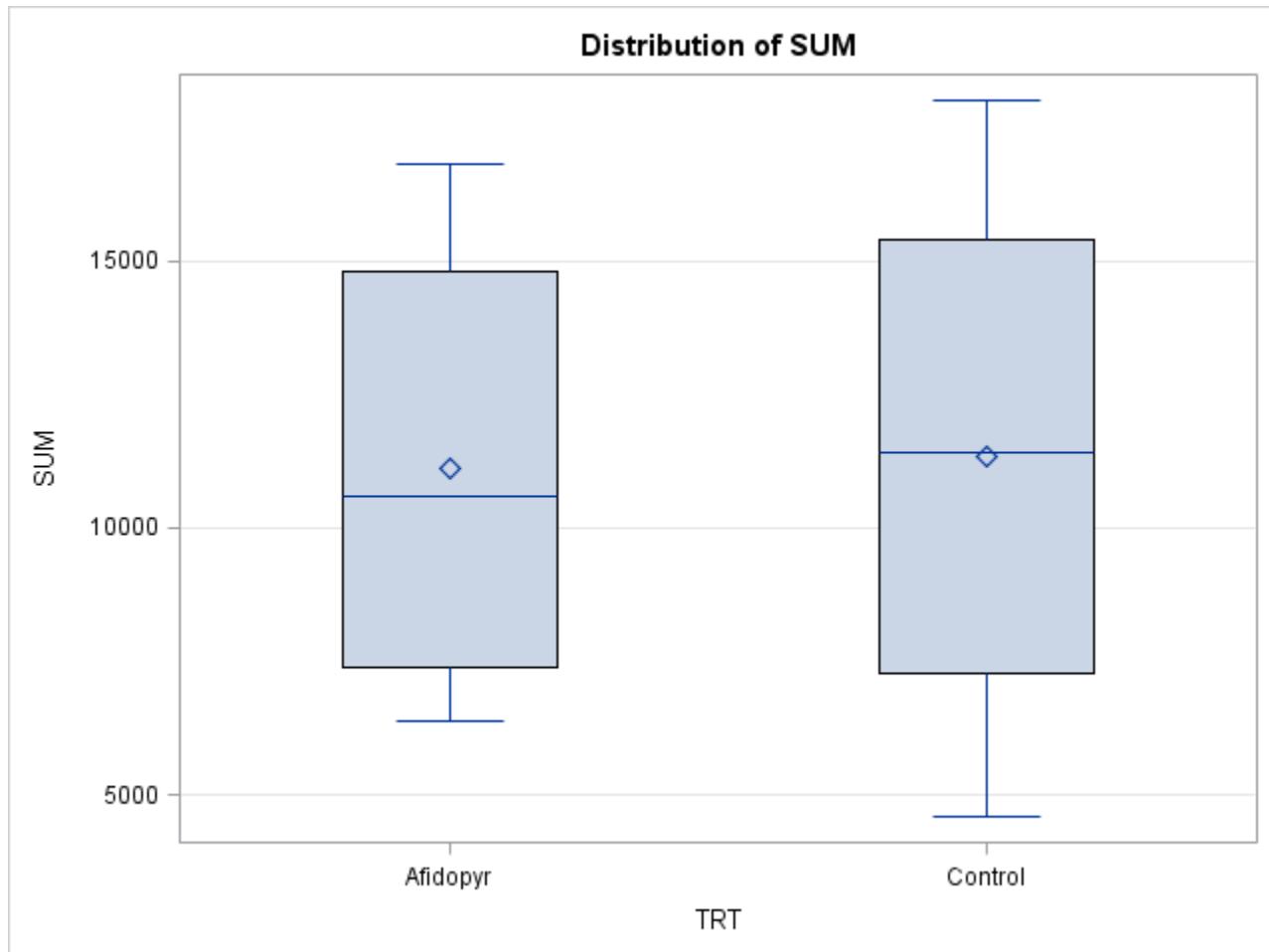
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	125000.0	125000.0	0.00	0.9474
<b>Error</b>	6	158470000.0	26411666.7		
<b>Corrected Total</b>	7	158595000.0			

R-Square	Coeff Var	Root MSE	SUM Mean
0.000788	45.78377	5139.228	11225.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	125000.0000	125000.0000	0.00	0.9474

**Distribution of SUM**



**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pupae DAT=-3**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pupae DAT=-3

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	26411667
Critical Value of t	2.44691
Minimum Significant Difference	8892

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	11350	4	Control
A			
A	11100	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pupae DAT=11

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

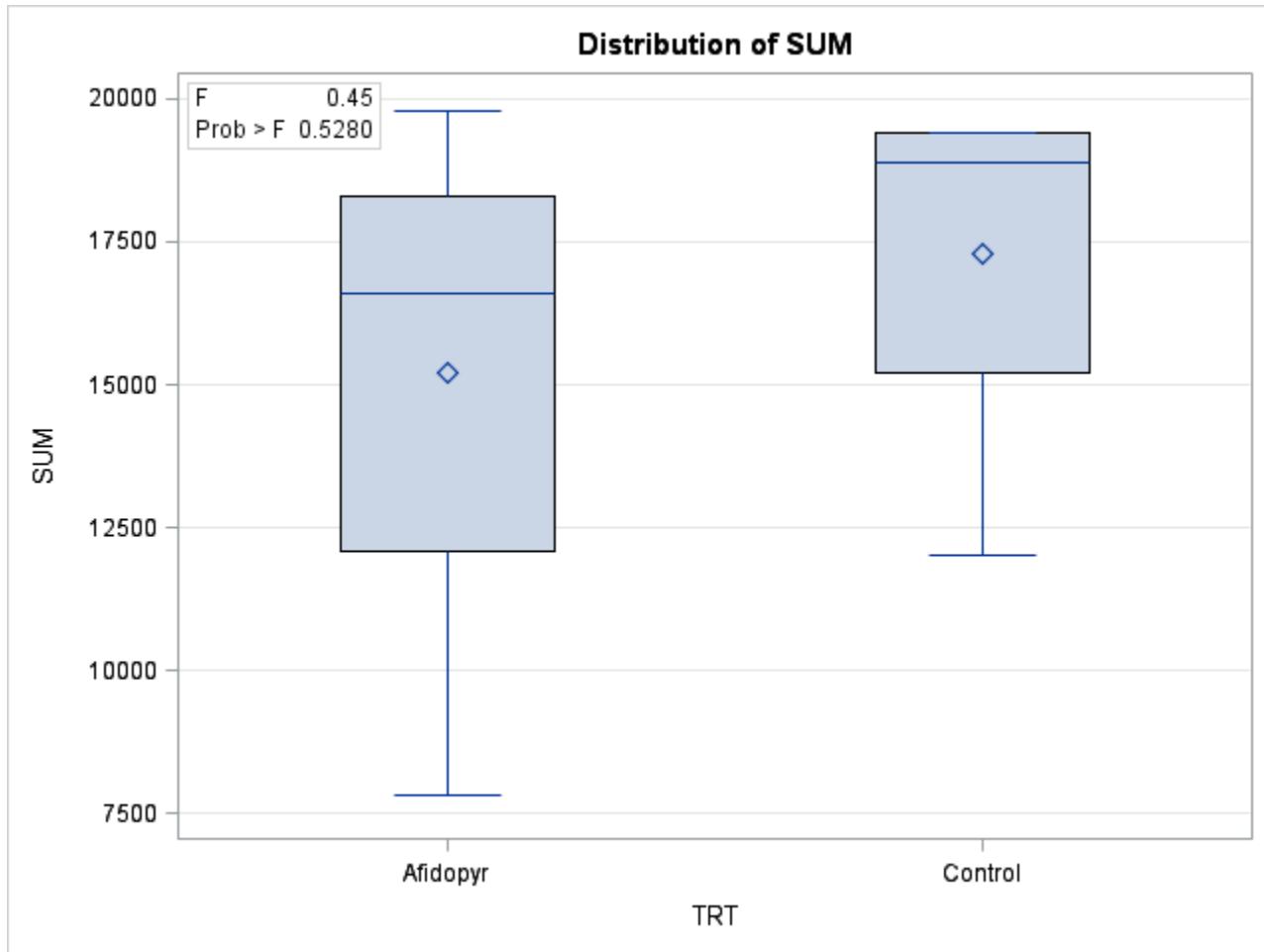
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pupae DAT=11**

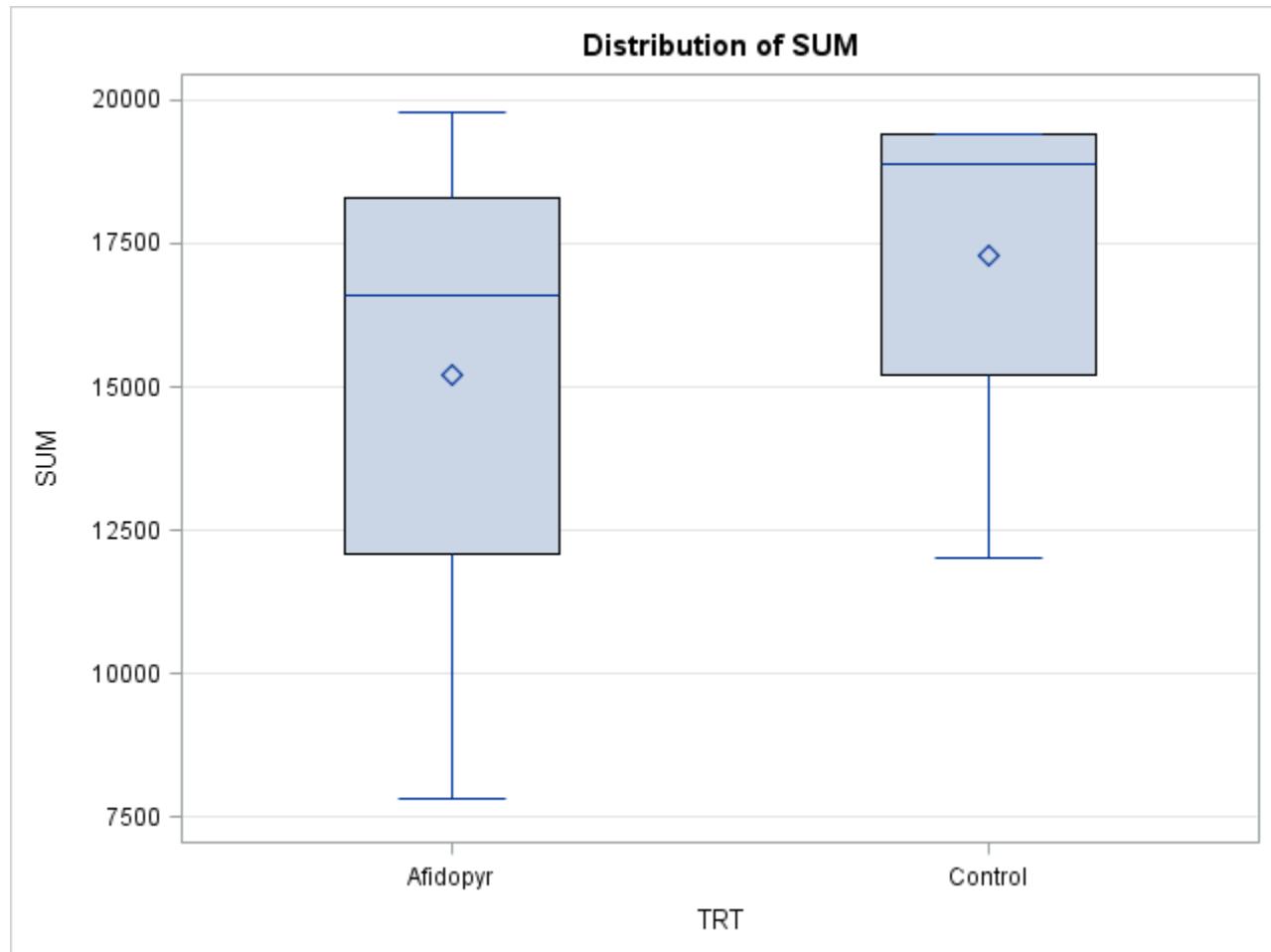
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	8820000.0	8820000.0	0.45	0.5280
<b>Error</b>	6	118040000.0	19673333.3		
<b>Corrected Total</b>	7	126860000.0			

R-Square	Coeff Var	Root MSE	SUM Mean
0.069525	27.29516	4435.463	16250.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	8820000.000	8820000.000	0.45	0.5280





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pupae DAT=11**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pupae DAT=11

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	19673333
Critical Value of t	2.44691
Minimum Significant Difference	7674.4

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	17300	4	Control
A			
A	15200	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pupae DAT=18

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

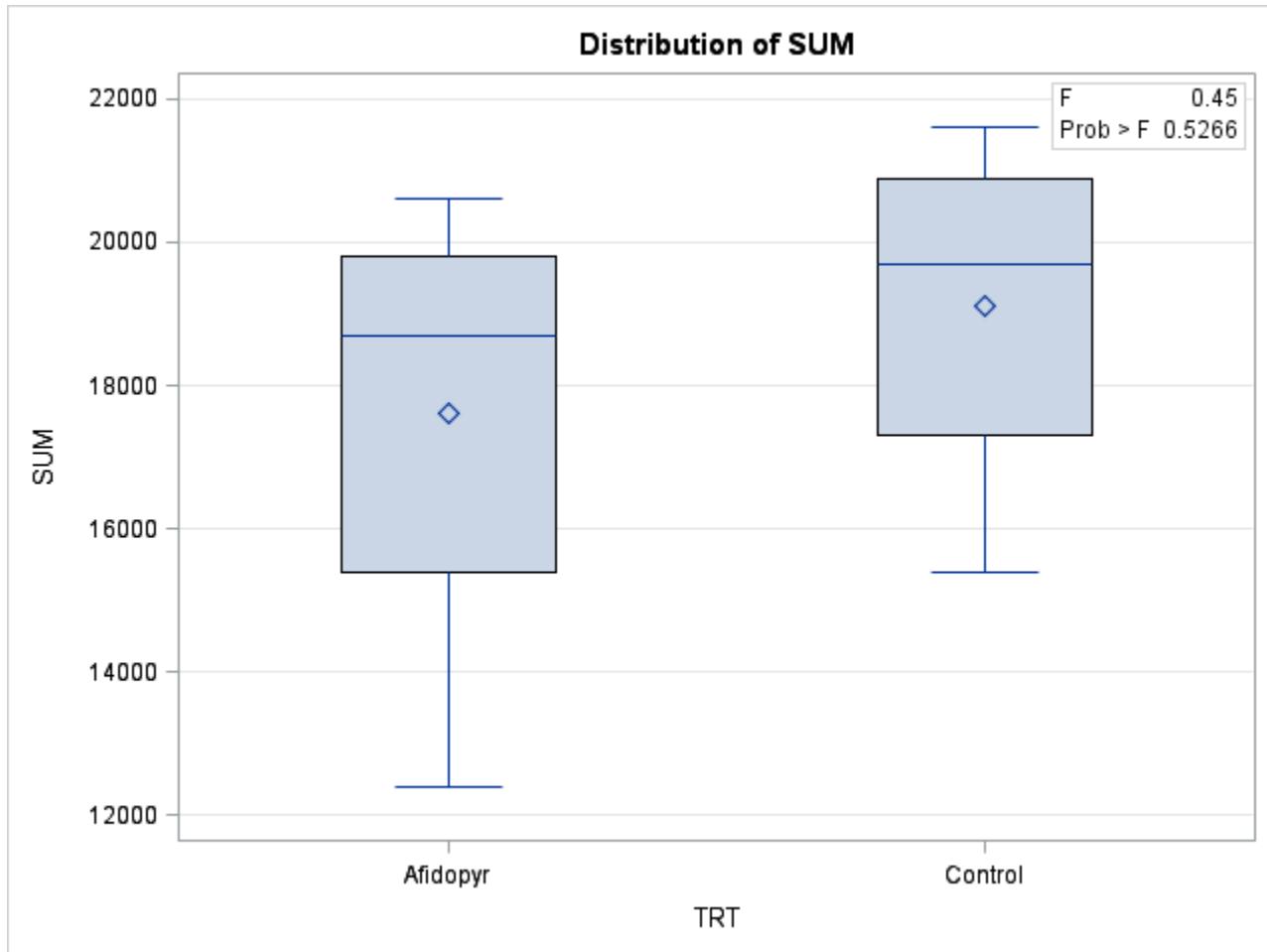
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pupae DAT=18**

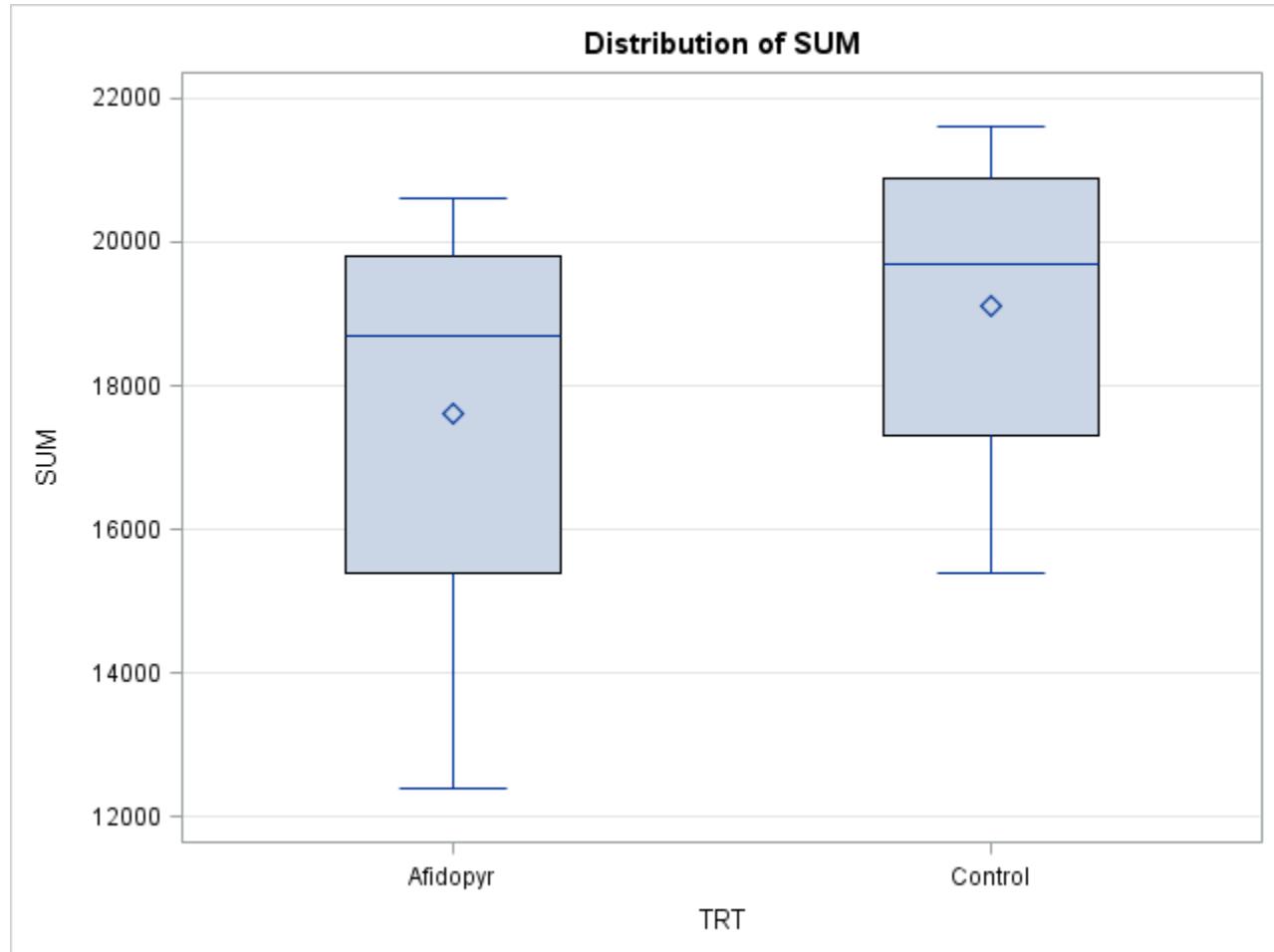
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	4500000.00	4500000.00	0.45	0.5266
<b>Error</b>	6	59800000.00	9966666.67		
<b>Corrected Total</b>	7	64300000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.069984	17.20437	3157.003	18350.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	4500000.000	4500000.000	0.45	0.5266





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pupae DAT=18**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pupae DAT=18

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	9966667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	5462.3

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	19100	4	Control
A			
A	17600	4	Afidopyr

---

## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pupae DAT=25

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

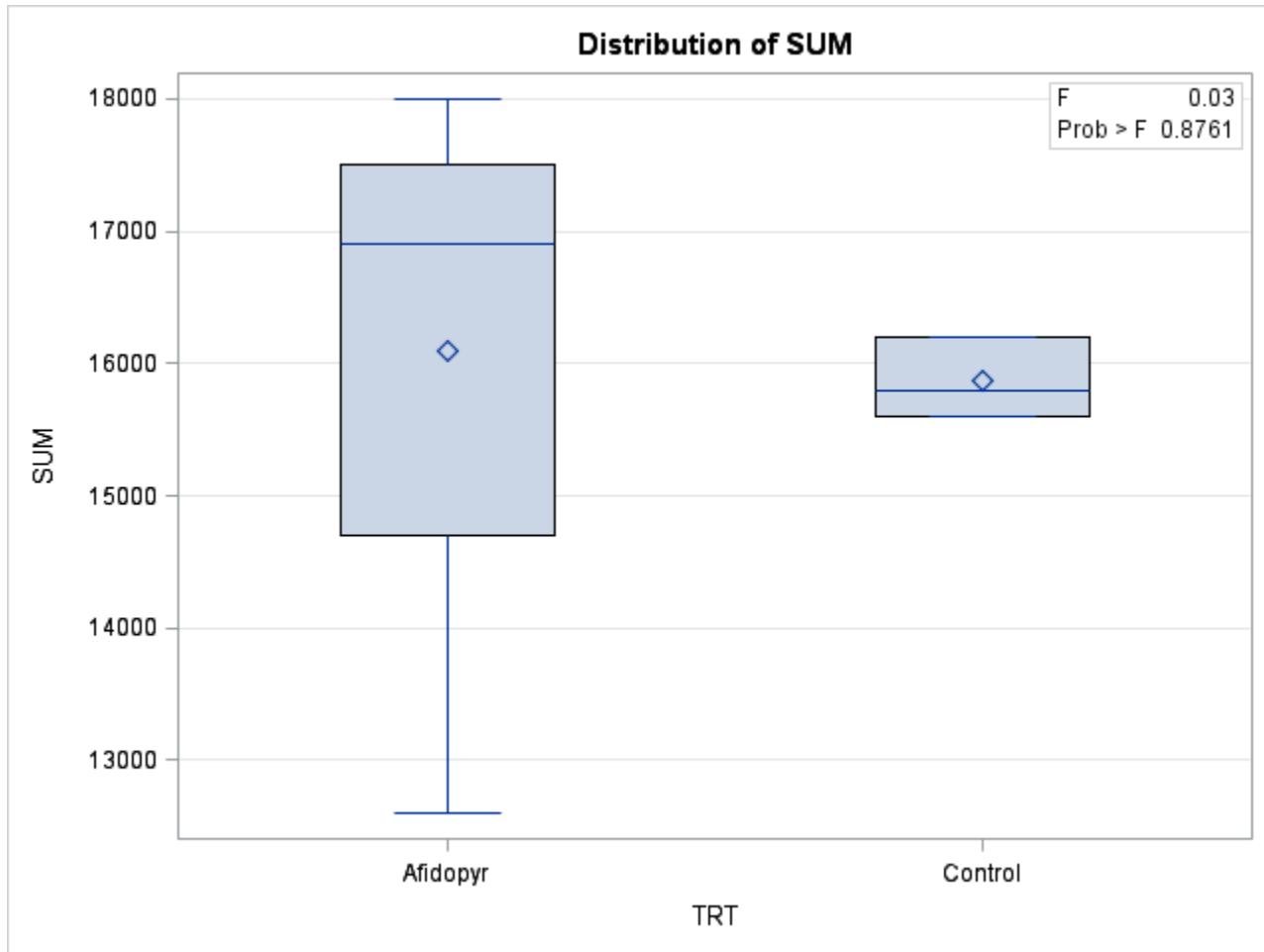
Number of Observations Read	7
Number of Observations Used	7

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pupae DAT=25**

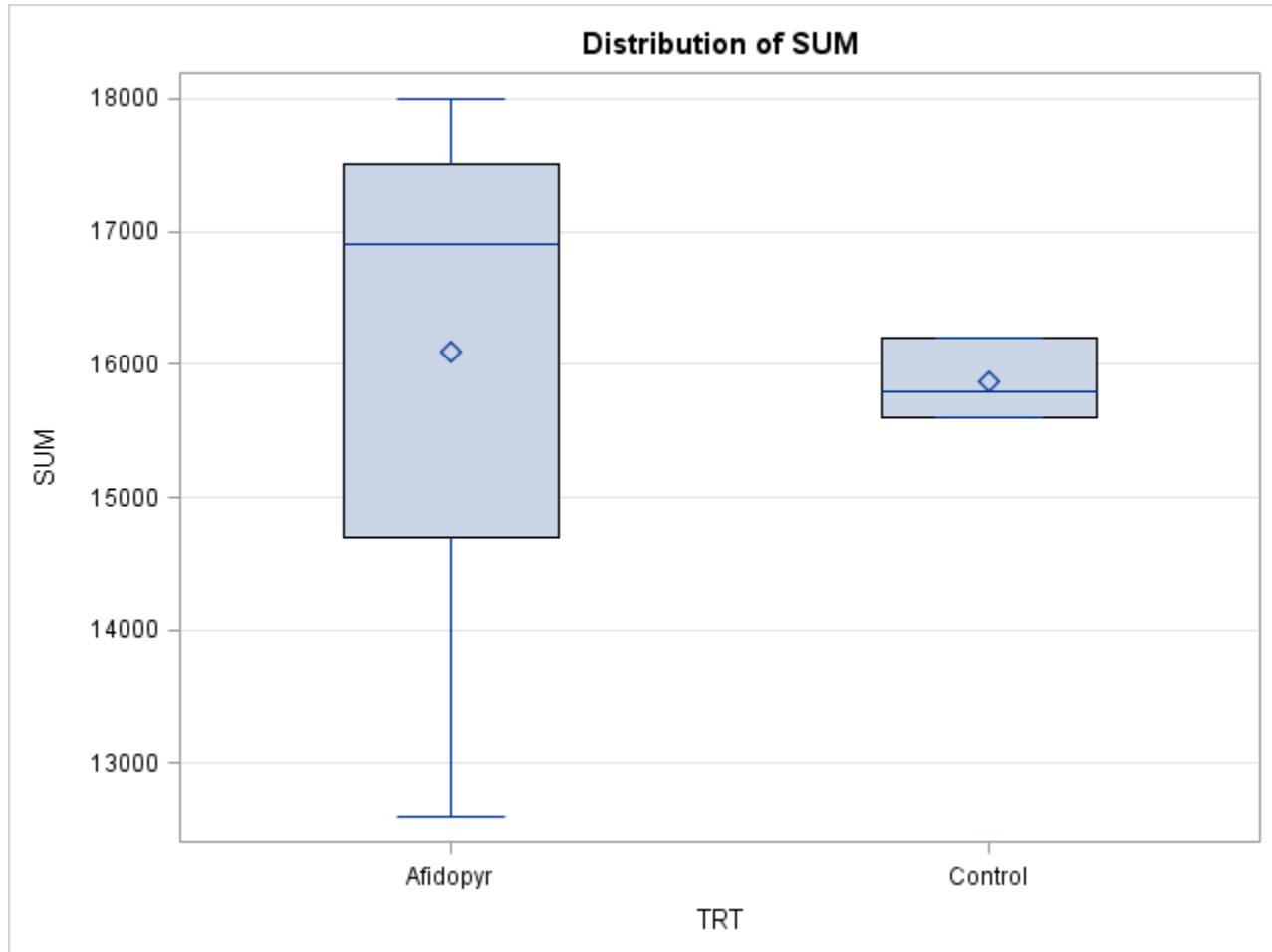
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	93333.33	93333.33	0.03	0.8761
<b>Error</b>	5	17346666.67	3469333.33		
<b>Corrected Total</b>	6	17440000.00			

R-Square	Coeff Var	Root MSE	SUM Mean
0.005352	11.64134	1862.615	16000.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	93333.33333	93333.33333	0.03	0.8761





**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pupae DAT=25**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pupae DAT=25

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	5
<b>Error Mean Square</b>	3469333
<b>Critical Value of t</b>	2.57058
<b>Minimum Significant Difference</b>	3656.9
<b>Harmonic Mean of Cell Sizes</b>	3.428571

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	16100	4	Afidopyr
A			
A	15867	3	Control

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## ANOVA FOR MATRIX BY DAT

### The ANOVA Procedure

MATRIX=Pupae DAT=4

Class Level Information		
Class	Levels	Values
TRT	2	Afidopyr Control

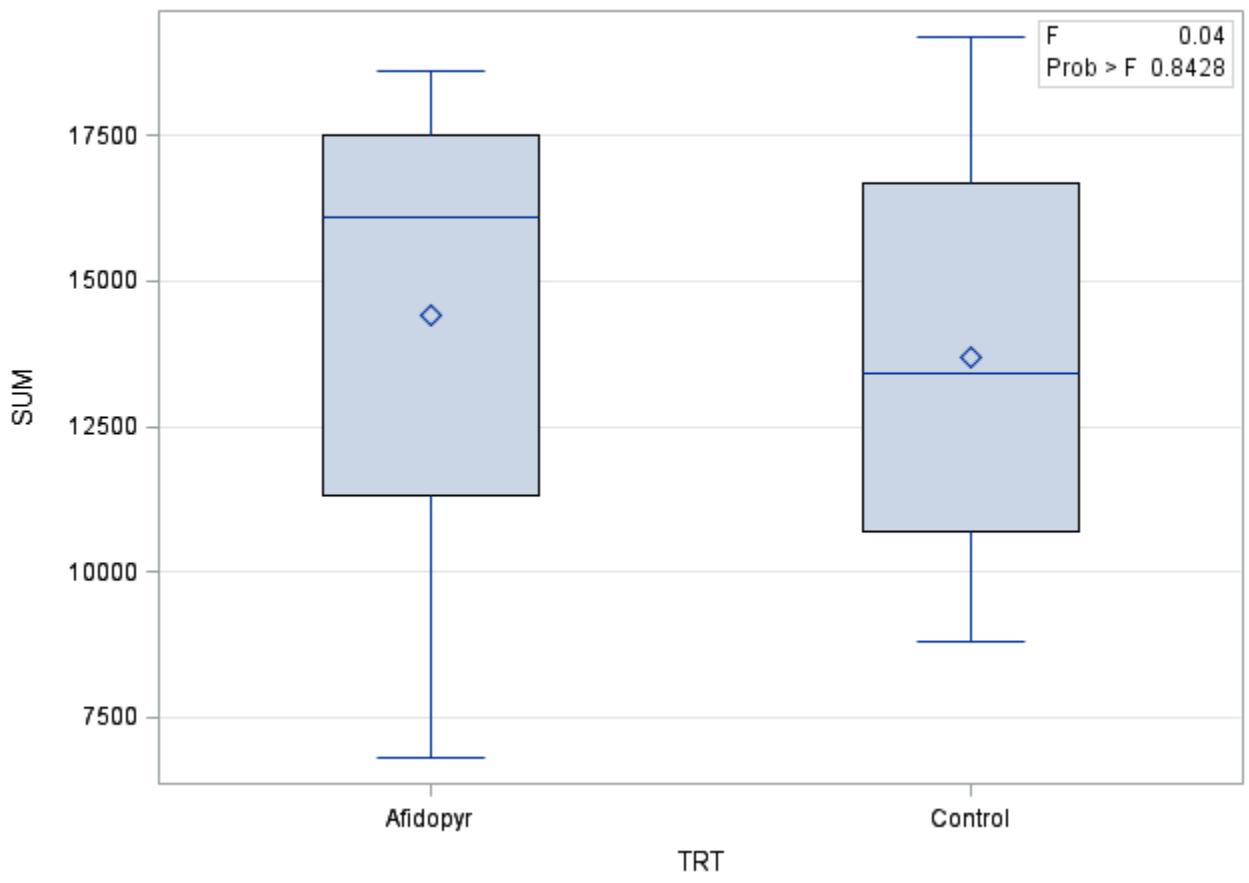
Number of Observations Read	8
Number of Observations Used	8

**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****Dependent Variable: SUM****MATRIX=Pupae DAT=4**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	980000.0	980000.0	0.04	0.8428
<b>Error</b>	6	137080000.0	22846666.7		
<b>Corrected Total</b>	7	138060000.0			

R-Square	Coeff Var	Root MSE	SUM Mean
0.007098	34.02006	4779.819	14050.00

Source	DF	Anova SS	Mean Square	F Value	Pr > F
<b>TRT</b>	1	980000.0000	980000.0000	0.04	0.8428

**Distribution of SUM**



**ANOVA FOR MATRIX BY DAT****The ANOVA Procedure****MATRIX=Pupae DAT=4**

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## ANOVA FOR MATRIX BY DAT

The ANOVA Procedure

Bonferroni (Dunn) t Tests for SUM

MATRIX=Pupae DAT=4

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

<b>Alpha</b>	0.05
<b>Error Degrees of Freedom</b>	6
<b>Error Mean Square</b>	22846667
<b>Critical Value of t</b>	2.44691
<b>Minimum Significant Difference</b>	8270.2

Means with the same letter are not significantly different.			
Bon Grouping	Mean	N	TRT
A	14400	4	Afidopyr
A			
A	13700	4	Control